HCD-H505

SERVICE MANUAL

Photo : German Model

Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model
PX Model
Chinese Model

- HCD-H505 is the tuner, deck, CD and amplifier section in FH-CX55/ MHC-C505.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM33B-5BD19
	Base Unit Name	BU-5BD19
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

CD player section

System: Compact disc digital audio system
Laser: Semiconductor laser
Wavelength: 780 – 790 nm
Frequency response: 2 Hz – 20 kHz
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.5 -108.0 MHz (50 kHz step for except Canadian, East European model) (100kHz step for Canadian model)
FM1 : 65 - 74MHz (10kHz step)
FM2 : 87.5 - 108MHz (East European model)
Antenna: FM lead antenna
Antenna terminals: 75 ohm unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range
Canadian model :
AM : 530 - 1,710kHz (10kHz step)
AM : 531 - 1,710kHz (9kHz step)
AEP, UK, East European, German model :
MW : 531 - 1,602kHz (9kHz step)
LW : 153 - 279kHz
Italian model :
AM : 522 - 1,611kHz (9kHz step)
German model :
AM : 531 - 1,602kHz (9kHz step)
E, Saudi Arabia, Argentine, Hong Kong, Mexican, Malaysia, Singapore, Australian, Tourist, PX, Chinese model :
MW: 531 – 1,602 kHz (9 kHz step)
530 – 1,710 kHz (10kHz step)
SW: 5.95 – 17.9 kHz
(E, Saudi Arabia, Hong Kong, Tourist, Malaysia, Singapore, PX, Chinese model)
Antenna: AM loop aerial
External aerial terminals
Intermediate frequency
450 kHz

Amplifier section

Continuous RMS power output
40 + 40 watts (6 ohms at 1 kHz, DIN)
48 + 48 watts (6 ohms at 1 kHz, 5% THD)
Music power output
100 + 100 watts (6 ohms at 1 kHz, 10% THD)
Inputs
AUX IN (phono jack):
sensitivity 450 mV,
impedance 47 kilohms

– Continued on page 2 –

MICROFILM

COMPACT DISC DECK RECEIVER

SONY®

MIX MIC (phone jack):
sensitivity 1 mV,
impedance 10 kilohms

Outputs

AUX OUT (phono jack):
250 mV
impedance 1 kilohms

PHONES (stereo phone jack):
accepts headphones of 8 ohms or more.

SPEAKER:
accepts speakers of 6 to 16 ohms.

Tape player section

Recording system
4-track 2-channel stereo

Frequency response
(DOLBY NR OFF)
40 – 13,000 Hz (±3 dB),
using Sony TYPE I cassette
40 – 14,000 Hz (±3 dB),
using Sony TYPE II cassette

Wow and flutter
0.1% WRMS ±0.3% (DIN)

Supplied accessories

AM loop aerial (1)
Remote RM-S55 (1)
Sony SUM-3 (NS) batteries (2)
FM lead aerial (1)
Speaker cords (2)

General

Destination	Power requirements	Power consumption
Canadian model	120V AC, 60Hz	110W
Australian model	220 – 240V AC, 50Hz	125W
AEP, German, Italian, East European model	220 – 230V AC, 50/60Hz	125W
UK model	240V AC, 50Hz	125W
E, Saudi Arabia, Hong Kong, Tourist , Malaysia, Mexican, Singapore, Argentine, Chinese model	110 – 120V/220V – 240V AC, 50/60Hz Adjustable with the Voltage Selector	125W

Dimensions
Approx. 280 x 325 x 335 mm (w/h/d)
(11 1/8 x 12 7/8 x 13 1/4 inches)

Mass Approx. 10 kg
(22 lb 1 oz)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

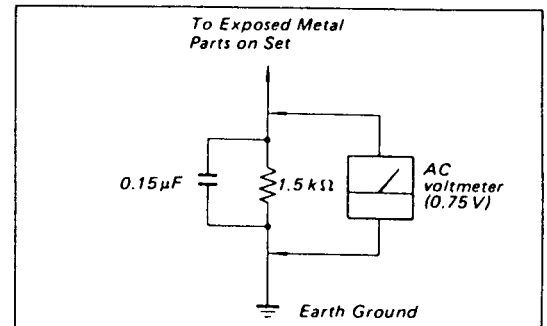


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

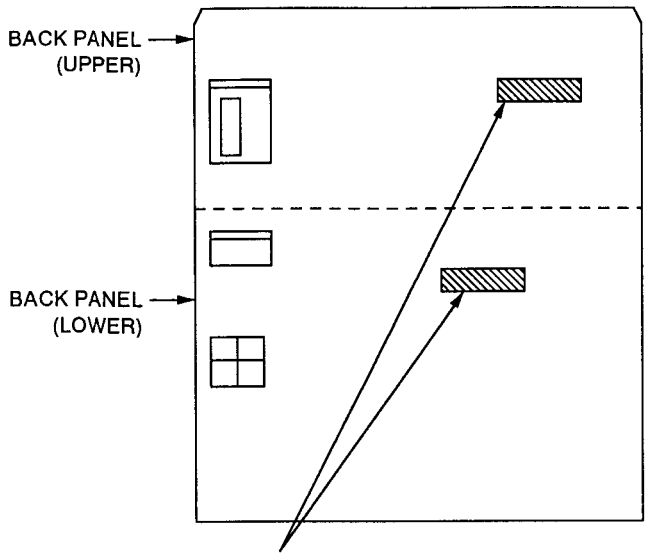
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

– BACK PANEL –



BACK PANEL (UPPER)

4-970-916-1 □: Canadian model
4-970-916-2 □: AEP (AEP 1) model
4-970-916-3 □: AEP (AEP 2) model
4-970-916-4 □: German model
4-970-916-5 □: UK model
4-970-916-6 □: East European model
4-970-916-7 □: E, Saudi Arabia, Argentine, Hong Kong, Singapore, Tourist, Chinese, PX model
4-970-916-8 □: Malaysia model
4-970-916-9 □: Maxican model
4-972-926-0 □: Australian model
4-972-926-7 □: Italian model

BACK PANEL (LOWER)

4-970-917-1 □: Canadian, AEP, German, Italian, East European, Maxican, Malaysia model
4-970-917-2 □: UK, Australian model
4-970-917-3 □: E, Saudi Arabia, Argentine, Singapore, Tourist, Chinese, PX model
4-970-917-9 □: Hong Kong model

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION	;	INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL	;	USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO!	;	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING	;	LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD.
ADVARSEL	;	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

This caution label is located inside the unit.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

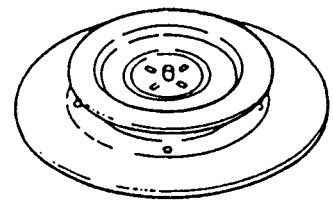
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25cm away form the objective lens.

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig : X-4918-255-1



SECTION 2
GENERAL

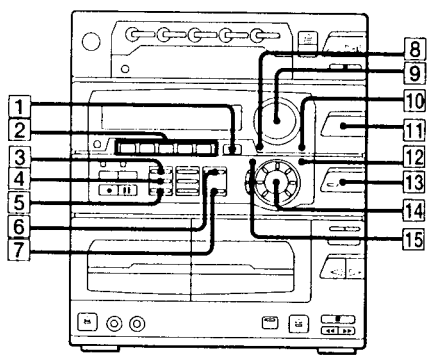
This section is extracted from instruction manual.

Index to Parts and Controls

Refer to the pages indicated in parentheses for details on how to use the controls. Controls with an asterisk have indicators on themselves.

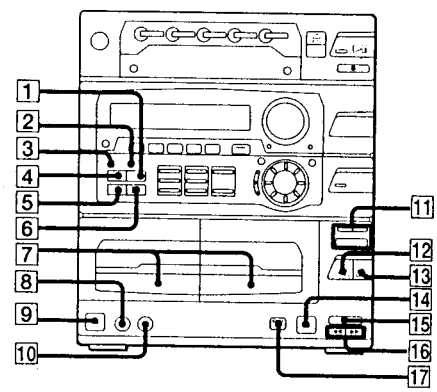
Front Panel

Amplifier/Tuner section



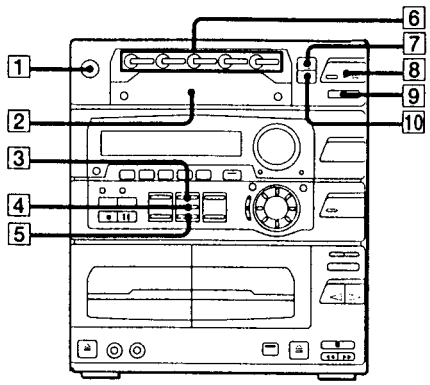
1 DBFB button*
2 PRESET EQUALIZER buttons*
3 TIMER SET button
4 DAILY button
5 TIMER REC button
6 TUNING MODE button
7 MONO button
8 CLOCK SET button
9 VOLUME control
10 DISPLAY button
11 FUNCTION button
12 ENTER/NEXT button*
13 TUNER/BAND button*
14 Jog dial (6, 9, 10, 14, 19)
15 TUNER MEMORY button

Tape player section



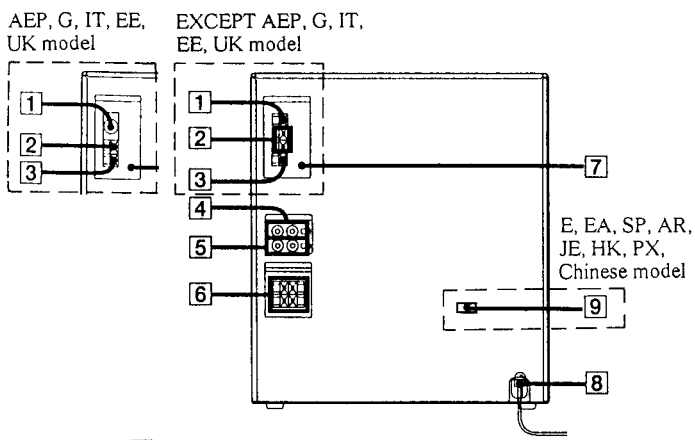
1 CD SYNCHRO button
2 DIRECTION MODE button
3 DOLBY NR button
4 HIGH SPEED DUBBING button
5 ● REC button*
6 ❚❚ PAUSE button*
7 Cassette compartments
8 PHONES jack (stereo phone jack)
9 ⏏ EJECT button (for deck A)
10 MIX MIC jack (phone jack)
11 DECK A/DECK B button and indicator*
12 ◁ (reverse side play) button*
13 ▷ (front side play) button*
14 ⏏ EJECT button (for deck B)
15 ■ (stop) button
16 ◀◀/▶▶ (fast leftward/fast rightward) buttons
17 KARAOKE PON button*

CD player section



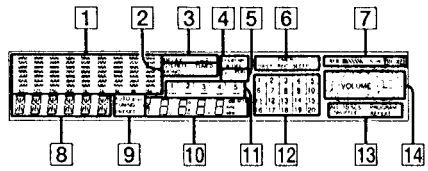
1 SYSTEM POWER switch
2 Disc tray
3 CONTINUE button
4 SHUFFLE button
5 PROGRAM button
6 DISC 1 – 5 buttons*
7 ⏏ OPEN/CLOSE button
8 ⏵⏸ (play/pause) button*
9 ■ (stop) button
10 DISC SKIP button

Rear panel



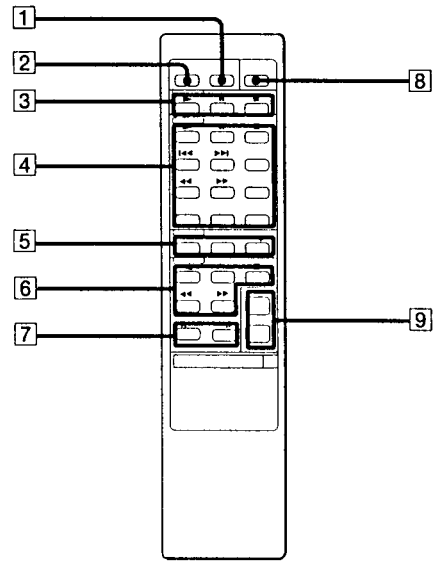
1 FM 75Ω terminal
2 ⏚ earth terminal
3 AM terminal
4 AUX IN jacks
5 AUX OUT jacks
6 SPEAKER connectors
7 Screw clamp
8 Mains lead
9 VOLTAGE SELECTOR :
E, EA, SP, AR, JE, HK, PX, Chinese model

Display Window



1 Graphic Equalizer indication
2 Tuner indications
3 Direction mode indications
4 DOLBY NR indications
5 Karaoke indication
6 Timer indications
7 DBFB/SUR indications
8 Function indication
9 Tuning mode indication
10 Frequency/time indications
11 Disc tray indications
12 Music calendar
13 CD play mode indications
14 VOLUME indication

Remote

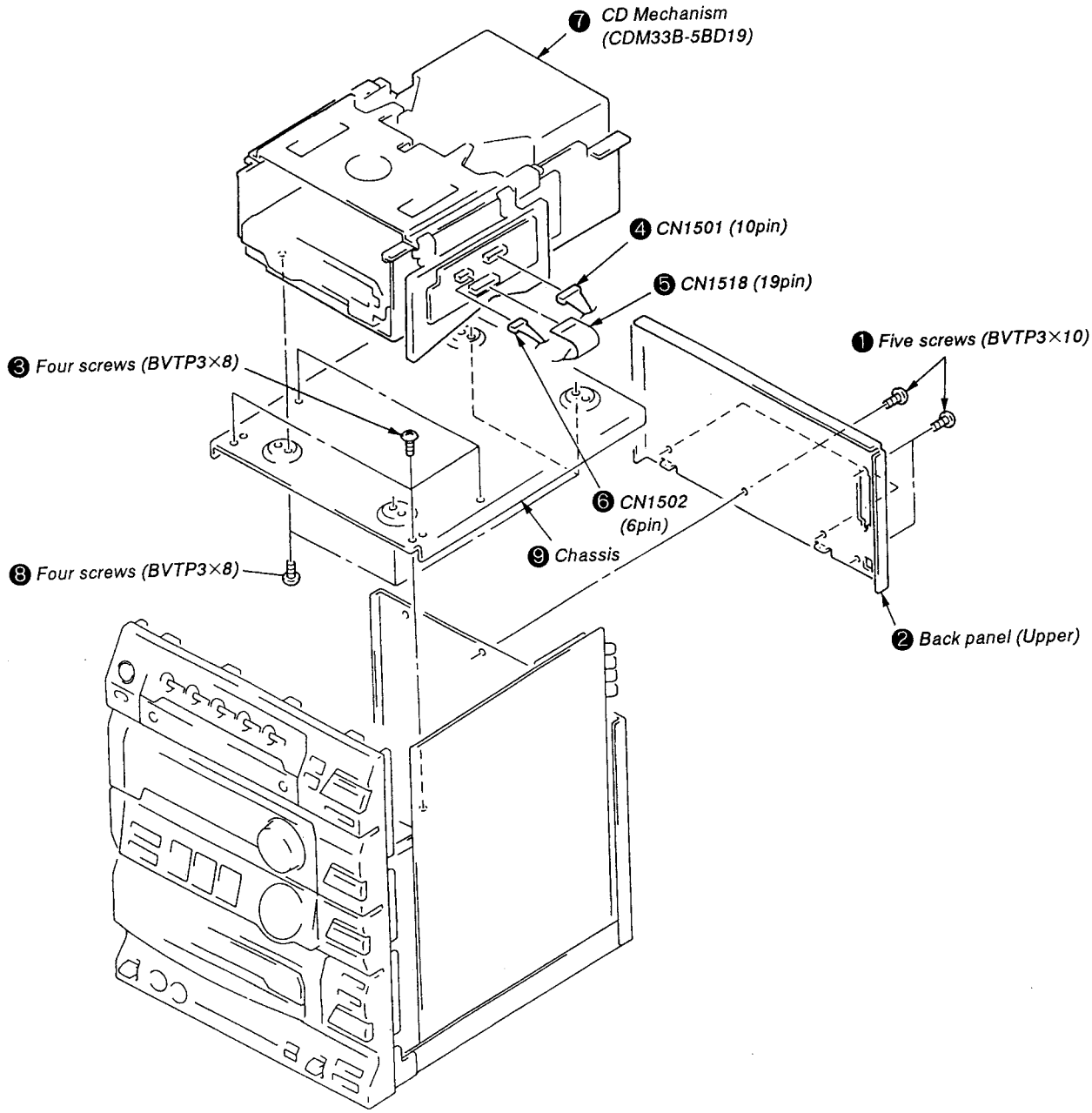


1 SLEEP button
2 FUNCTION button
3 MD operating buttons
► (play)
❚❚ (pause)
■ (stop)
4 CD operating buttons
► (play)
❚❚ (pause)
■ (stop)
⏮/⏭ (AMS)
◀◀/▶▶ (fast backward/fast forward)
DISC SKIP button
REPEAT button
EDIT button
CHECK button
CLEAR button
5 Tuner operating buttons
BAND button
PRESET (–/+) button
6 Tape operating buttons
◄ (reverse side play)
► (front side play)
■ (stop)
◀◀/▶▶ (fast leftward/fast rightward)
7 TAPE A/B buttons
8 SYSTEM POWER switch
9 VOL (+/–) buttons

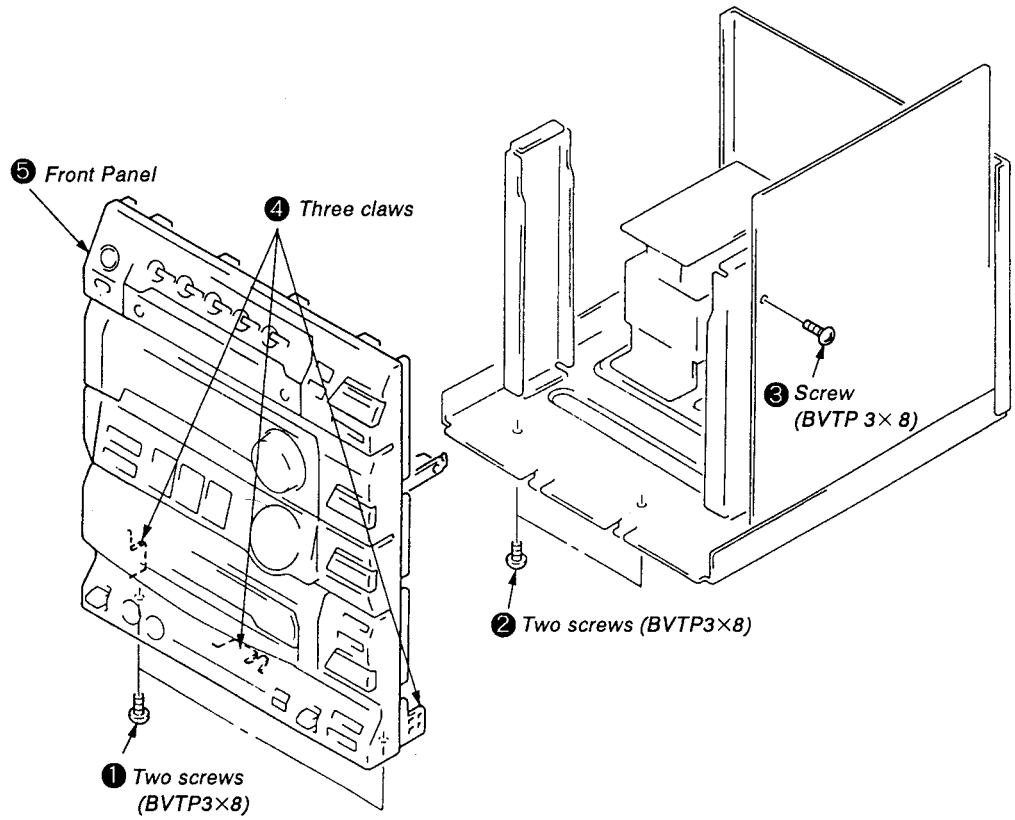
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

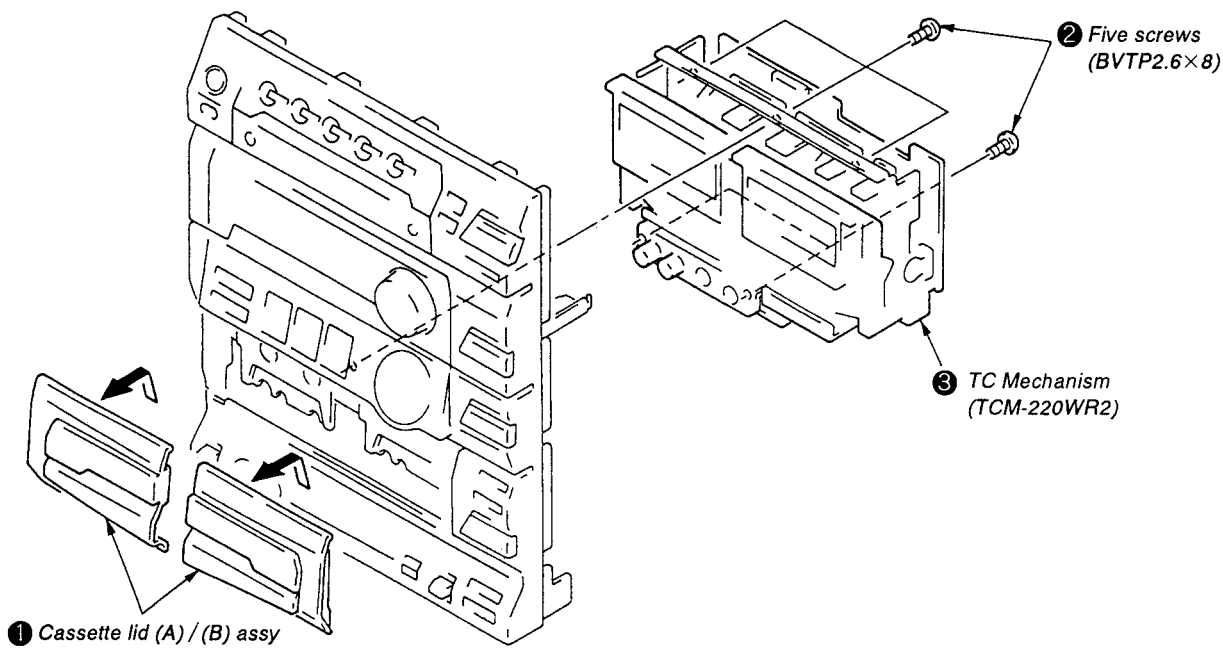
3-1. CD MECHANISM REMOVAL



3-2. FRONT PANEL REMOVAL



3-3. TC MECHANISM REMOVAL



SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g•cm (0.50 – 0.84 oz•inch)
Forward Back Tension	CQ-102C	2 to 6g•cm (0.028 – 0.083 oz•inch)
Reverse	CQ-102RC	36 to 61g•cm (0.50 – 0.84 oz•inch)
Reverse Back Tension	CQ-102RC	2 to 6g•cm (0.028 – 0.083 oz•inch)
FF, REW	CQ-201B	61 to 143g•cm (0.85 – 1.99 oz•inch)

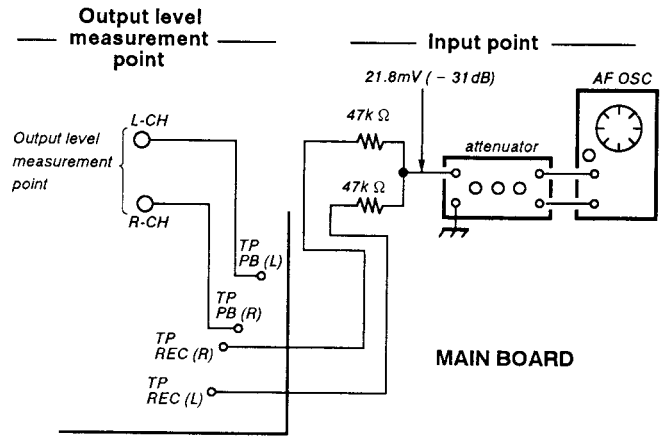
• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 1kg (35.2 oz)
Reverse	CQ-403R	more than 1kg (35.2 oz)

4-2. ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
   • Switch position
   DOLBY NR switch : OFF
   FUNCTION button : CD
3. Deck section electrical adjustments are made in test mode by pressing TUNER/BAND, DISPLAY, and POPS at the same time.
4. Input point and output level measurement point.



• Test Tape

Tape	Contents	Use
P-4-A100	10kHz, – 10dB	Head Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

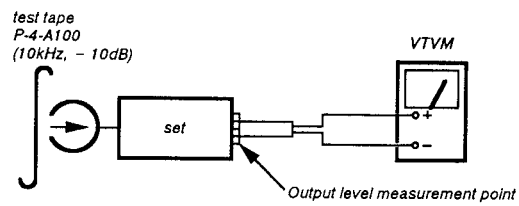
0 dB=0.775V

Record/Playback Head Azimuth Adjustment

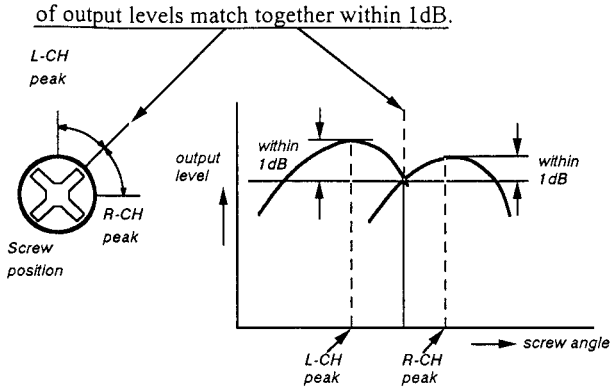
DECK A **DECD B**

Procedure :

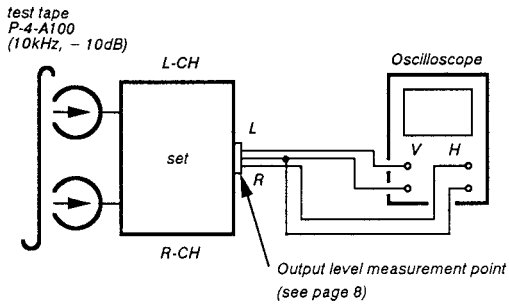
1. Forward Playback mode
   Reverse Playback mode

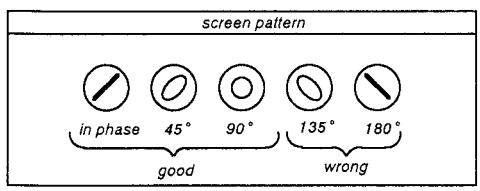


2. Turn the adjustment screw for the maximum output levels.If these levels do not match,turn the adjustment screw until both of output levels match together within 1dB.



3. Playback Mode

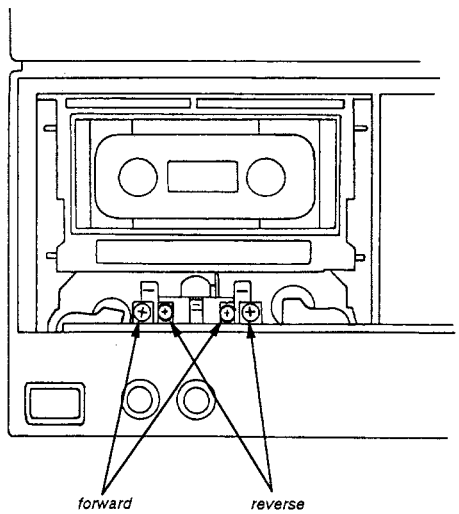




4. Change the review playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location :

– record/playback head (Deck A and B)

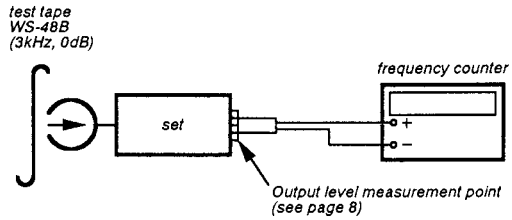


Tape Speed Adjustment DECK A DECK B

Procedure :

- Perform high speed adjustment before normal speed adjustment.

Mode : Playback



Speed	Deck	Adjustment	Frequency counter
※ High	A	RV652	5,970 to 6,030Hz
	B	RV652	
Normal	A	RV651	3,000 to 3,020Hz
	B	RV651	

∗ Continue to press HIGH SPEED DUBBING switch (S551) in playback mode : High speed playback.

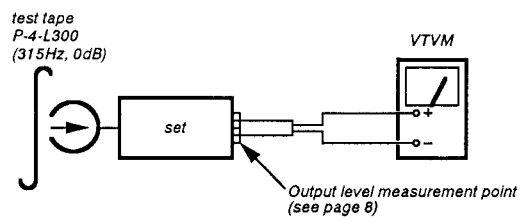
Frequency difference between the begining and the end of the tape should be within ± 3%.
Frequency difference between deck A and deck B the biginning of the tape should be within 1.5%.

Adjustment Location : AUDIO board.
(see page 10)

Playback Level Adjustment DECK A DECK B

Procedure :

Mode : Playback



Deck A is RV311(L-CH) and RV411(R-CH), deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level :

LINE OUT level: – 7.5 ± 0.5dB (0.31 to 0.35V)
Level Difference between Channels : within 0.5dB

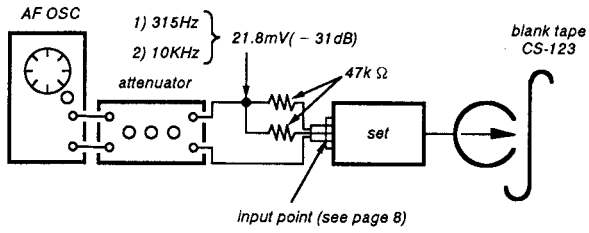
Confirm the DOLBY OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : AUDIO board.
(see page 10)

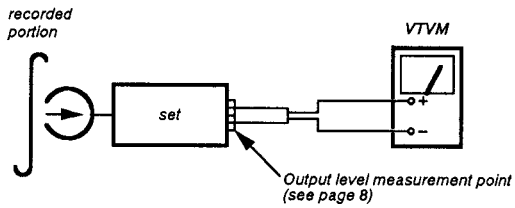
Record Bias Adjustment DECK B

Procedure :

1. Record mode



2. Playback mode



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the RV341 (L-CH) and RV441 (R-CH) to repeat step 1 and 4.

Adjustment level : Playback output of 315Hz to playback output of 10kHz : − 0.5dB to 0.5dB.
(− 1.3 to 1.3mV)

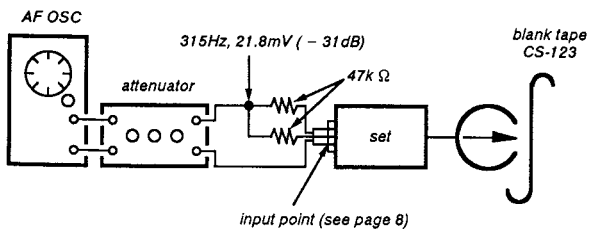
Adjustment Location : AUDIO board.

Record Level Adjustment DECK B

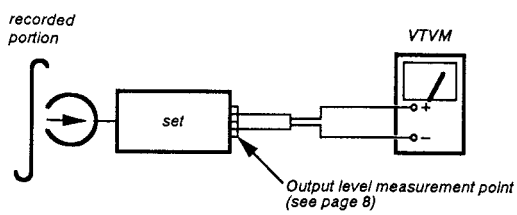
FUNCTION button : CD

Procedure :

1. Record mode



2. Playback mode



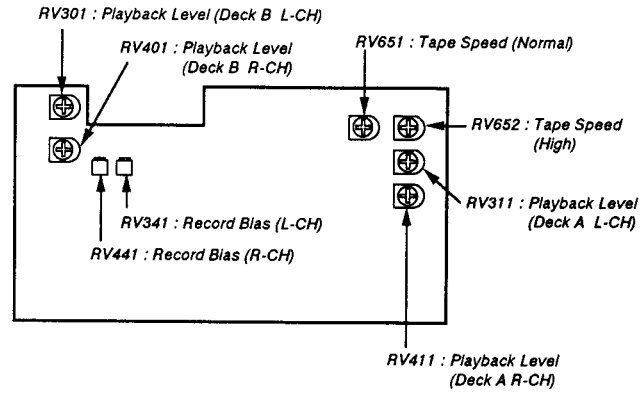
3. Confirm playback the signal recorded in step become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the RV401(L-CH) and RV451 (R-CH) to repeat step 1 and 4.

Adjustment Level :
DOLBY OUT level : − 26dB ± 0.5dB (36.7 to 41.1mV)

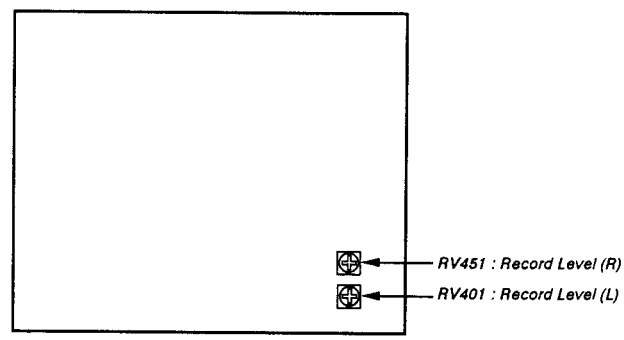
Adjustment Location : MAIN board

Adjustment Location :

【AUDIO BOARD 】 − Component side −


RV301 : Playback Level (Deck B L-CH)
RV401 : Playback Level
(Deck B R-CH)
RV651 : Tape Speed (Normal)
RV652 : Tape Speed
(High)
RV311 : Playback Level
(Deck A L-CH)
RV341 : Record Bias (L-CH)
RV441 : Record Bias (R-CH)
RV411 : Playback Level
(Deck A R-CH)

【MAIN BOARD】 − Component side −



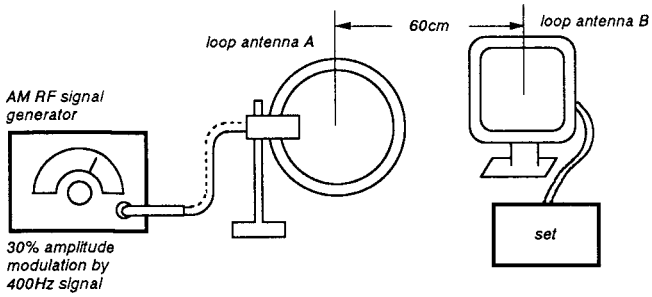
TUNER SECTION

Note. 1 : The adjustment should be performed in the publication. (AM → FM → SW)

Note. 2 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

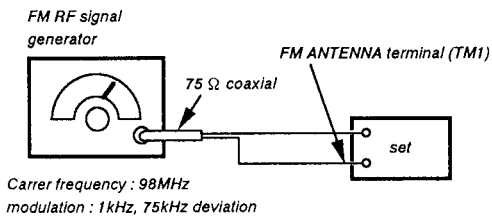
AM Section Adjustment

Setting :



FM Section Adjustment

Setting :



AM Tuned Indication Lighting Level Adjustment

Band : MW

Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 3.2mV (70dB μ)
2. Tune the set to 999kHz.
3. Adjust RV41 so that the TUNED light up.
4. Confirm that the TUNED light off with AM RF Signal generator output level set at 0dBμ .
5. Confirm the FM tuned indication lighting level and adjust if necessary.

Adjustment Location : Main board

FM Tuned Indication Lighting Level Adjustment

Band : FM

Procedure :

1. Supply a 11.2μV (21dBμ) 98MHz signal to the ANTENNA terminal (TM1).
2. Tune the set to 98MHz.
3. Adjust RV42 so that the TUNED light up.
4. Confirm that the TUNED light off with FM RF signal generator output level set at 16dBμ .

Adjustment Location : Main board

SW OSC Voltage Adjustment

Band : SW

(E3, Saudi Arabia, Hong Kong, Malaysia, Singapore model)

Procedure :

1. Connecct the VOM to JW376 (OSC)
2. Tune the set to 5.95MHz.
3. Adjust T2 for 1.0 to 1.1V reading on the VOM.
4. Tune the set to 17.90MHz.
5. Adjust CV2 for 8.4 to 8.6V reading on the VOM.

SW Tracking Adjustment

Band : SW

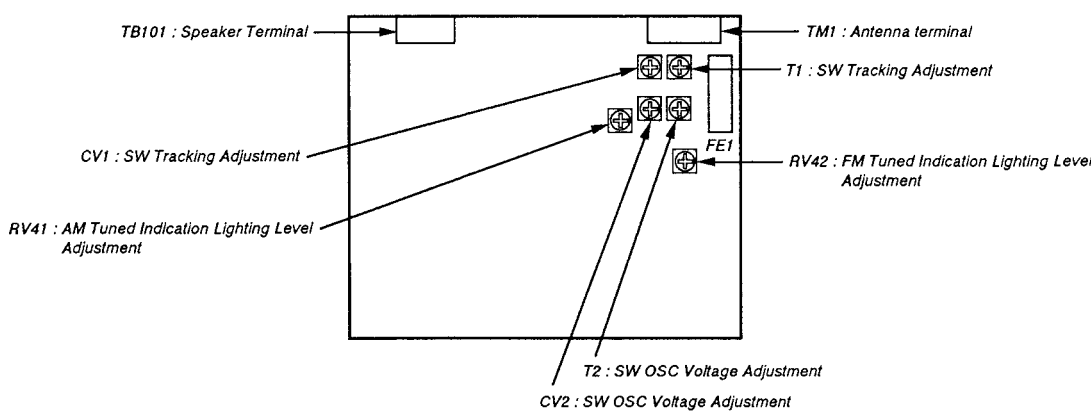
Procedure :

1. Connect the VOM to speaker terminal (TB101).
2. Adjust for a maximum reading on VOM.

Signal generator and set frequency	Adjustment part
7.0 MHZ	T1
17.0 MHZ	CV1

Adjustment Location : Main board

[MAIN BOARD] – Component side –


TB101 : Speaker Terminal
TM1 : Antenna terminal
T1 : SW Tracking Adjustment
CV1 : SW Tracking Adjustment
FE1
RV42 : FM Tuned Indication Lighting Level Adjustment
RV41 : AM Tuned Indication Lighting Level Adjustment
T2 : SW OSC Voltage Adjustment
CV2 : SW OSC Voltage Adjustment

CD SECTION

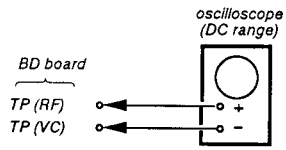
Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

Focus Bias Adjustment

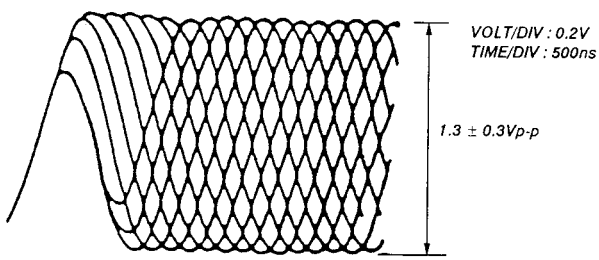
This adjustment is to be done when the optical block is replaced.

Adjustment procedure :



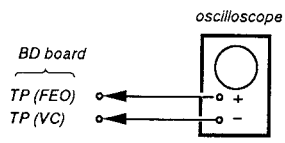
1. Connect oscilloscope to test point TP (VC) and TP (RF) on BD board.
2. Turned power switch ON. (Stop mode)
3. Put disc (YEDS-18) in and press the ▶ button.
4. Press the DISPLAY/ENTER button. (Tracking servo ON)
5. Adjust RV101 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
6. Release test mode after adjustment is completed.

- RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

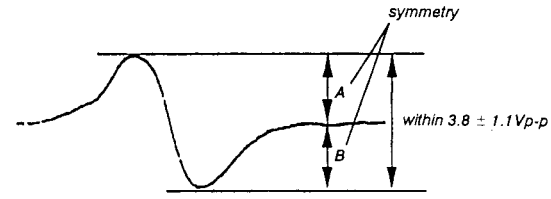
S-Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) and BD board.
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3.8 ± 1.1Vp-p.

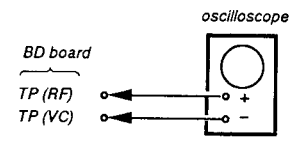
S-curve waveform



6. After check, remove the lead wire connected in step 2.

Note : ● Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
● Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



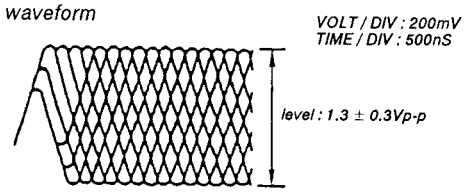
Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

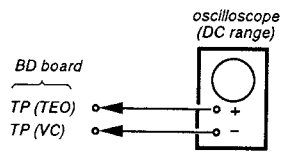
Note :

Clear RF signal waveform means that the shape " ◇ " can be clearly distinguished at the center of the waveform.

RF signal waveform



E-F Balance Check



Procedure :

1. Ground main board IC101 pin ⑯ with the lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse waveform

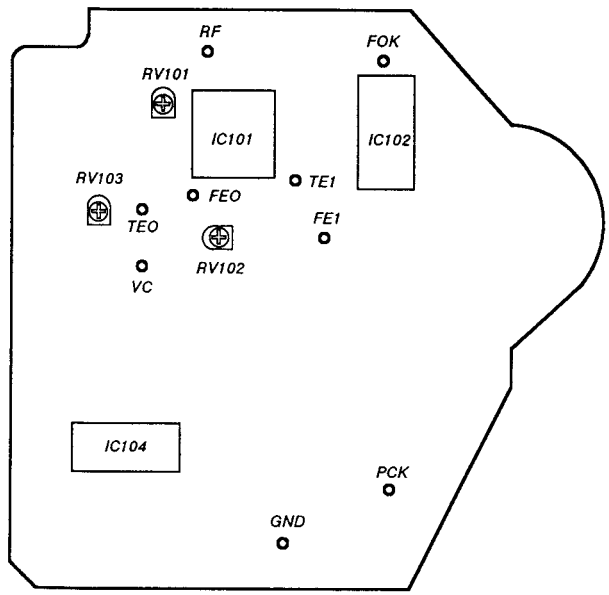
6. Remove the lead wire connected in step 1.

Focus/Tracking Gain (RV102/RV103)

This gain has a margin, so even if it is slightly off. There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location :

【BD BOARD】 – Component side –



SECTION 5
EXPLANATION OF IC TERMINALS

IC101 TMP87CP64F-6254 (MAIN BOARD)

Pin No.	Pin name	I/O	Description
1	Vss	–	GND
2	X OUT	O	Main system clock. (8MHz)
3	X IN	I	
4	$\overline{\text{RESET}}$	I	Reset signal input terminal.
5	X OUT	O	Sub system clock. (32.768kHz)
6	X IN	I	
7	GND	–	GND
8	$\overline{\text{AC OUT}}$	I	MICON AC DET.
9	COUNT SW	I	COUNT input DET terminal.
10	INIT SW	I	INIT switc input terminal.
11	DISC SENS	I	DISC DET terminal.
12	MID SENS	I	MID DET terminal.
13	CD XRST	O	CD Reset output. "L" : RESET
14	POWER	O	Power on output. "L" : ON
15	TA MUTE	O	AMP Mute output. "L" : MUTE
16	MPX	O	MPX Control output.
17	KEYCON LATCH	–	Not used. (OPEN)
18	VOL LATCH	O	Latch output to volume control. (TC9210P)
19	K. PON A	–	Not used. (OPEN)
20	K. PON B	–	Not used. (OPEN)
21	FUNC A	O	Function Select.
22	FUNC B	O	
23	FUNC C	–	Not used. (OPEN)
24	GEQ. LATCH	O	Latch output to gray control. (M62423FP)
25	RDS. INT	I	RDS DATA START Signal input.
26	SCOR (DSP)	I	Sub-code sync SO+SI detection input from DSP. (CXD2507AQ)
27	SENS	I	SENS input from DSP. (CXD2507AQ)
28	CD POWER	O	Power on output. "H" : ON
29	CDG LATCH	–	Not used. (OPEN)
30	DBFB1 – 2	O	DBFB Select output. "H" : DBFB LOW "L" : DBFB HIGH
31	ST MUTE	O	TUNER MUTE Output.
32	ST CE	O	Chip enable output to tuner PLL IC (LC72130)
33	STEREO	I	FM/AM Stereo identification. "L" : STEREO
34	TUNED	I	FM/AM Tuning identification. "L" : TUNING
35	SQ-RDS-CLK	O	Sub-code Q data scanning clock output to DSP (CXD2507AQ), RDS clock output.
36	SQ-RDS-DI	I	Sub-code Q data input from DSP (CXD2507AQ), RDS data input.
37	RDS-RESET	O	RDS Reset signal output.
38	CLK	O	System clock output.
39	D. IN	I	Serial data input from tuner.
40	D. OUT	O	Serial data (COMN) output.
41	TABLE SENS	–	Not used. (OPEN)
42	REQ GM	I	Data transmission request input from system control.

FUNCTION	FUNC A	FUNC B
ST	L	L
CD	L	H
TC	H	L
AUX	H	H

Pin No.	Pin name	I/O	Description
43	REQ MG	O	Data transmission request output to system control.
44	CLK MG	O	Clock output for communications with system control.
45	D. GM	I	Serial data input form system control.
46	D. MG	O	Serial data output to system control.
47	RDY	I/O	System control Ready signal input/output. "L" : READY
48	VAREF	–	Power suppiy. (+5V)
49	VASS	–	GND
50	V_{SS}	–	GND
51	V_{DD}	–	Power supply (+5V)
52	URGENT. SIG	I	Not used. (+5V)
53	URGENT. STBY	I	Not used. (OPEN)
54	BUG Y/$\overline{N}$	–	Not used. (GND Connected)
55	ADJUSTOR	–	Not used. ("H" LEVEL)
56	ADJUST2	–	Not used. ("H" LEVEL)
57	MAGIC SPEED	–	Not used. ("H" LEVEL)
58	SPEC	–	Not used. ("H" LEVEL)
59	DIST	–	Not used. ("H" LEVEL)
60	SPEED	–	Not used. ("H" LEVEL)
61	BREAK	–	Not used. ("H" LEVEL)
62	B-PLAY	I	Deck-B PLAY Switch input. "H" : PLAY
63	B-SHUT	I	Deck-B Reel table signal input.
64	B-HALF	I	Deck-B Record prevention claw A, B detection input.
65	A-SHUT	I	Deck-A Reel table signal input.
66	A-PLAY	I	Deck-A PLAY Switch input. "H" : PLAY
67	A-HALF	I	Deck-A HALF SW input.
68	CAPM H/L	O	Not used. (OPEN)
69	CAPM ON/OFF	O	Not used. (OPEN)
70	TRIG H/L	O	Trigger motor control output terminal.
71	B TRG	O	
72	A TRG	O	
73	RELAY	O	Control output to REC/PB select switch. (IC602)
74	A/B	O	Dolby IC PB input Deck A/B select output. "L" : A, "H" : B
75	NORM/HIGH	O	EQ Select switch output for normal/high speed. "H" : High speed
76	BIAS ON/OFF	O	BIAS Oscillation ON/OFF control. "H" : ON
77	RM ON/OFF	O	REC Mute output. "L" :MUTE
78	REC/PB	O	DOLBY IC REC/PLAY Select output. "H" : REC
79	NR	O	DOLBY ON/OFF Control output. "H" : ON
80	LM	O	LINE Mute output. "L" : MUTE
81	PASS	O	PASS Amplifier switch output to DOLBY IC. (IC401)
82	CDG. MUTE	–	Not used. (OPEN)
83	UP MOTOR	O	UP/DOWN motor control.
84	DOWN MOTOR	O	UP/DOWN motor control.
85	TABLE R	–	Not used. (OPEN)
86	TABLE L	–	Not used. (OPEN)
87	LOAD OUT	O	Loading motor (M903) Load out output.
88	LOAD IN	O	Loading motor (M903) Load in output.
89	DF-LATCH	O	Latch output to digital filter. (PCM1701U)

Pin No.	Pin name	I/O	Description
90	XLT	O	Serial data latch output to DSP. (CDX2507AQ)
91	FOCUS SW	O	High-region gain down output to focus servo. (CXA1782BQ)
92	HIGH DUBB	–	Not used. ("H" LEVEL)
93	TEST 1	–	Not used. ("H" LEVEL)
94	OUT SW	I	CD Tray output detection input.
95	IN SW	I	CD Tray input detection terminal.
96	UP SW	–	Not used. (GND)
97	PANEL SW	I	5CD PANEL SW DET terminal.
98	CLOSE SW	–	Close SW DET input terminal.
99	OPEN SW	–	Open SW DET input terminal.
100	V_{DD}	–	Power supply. (+5V)

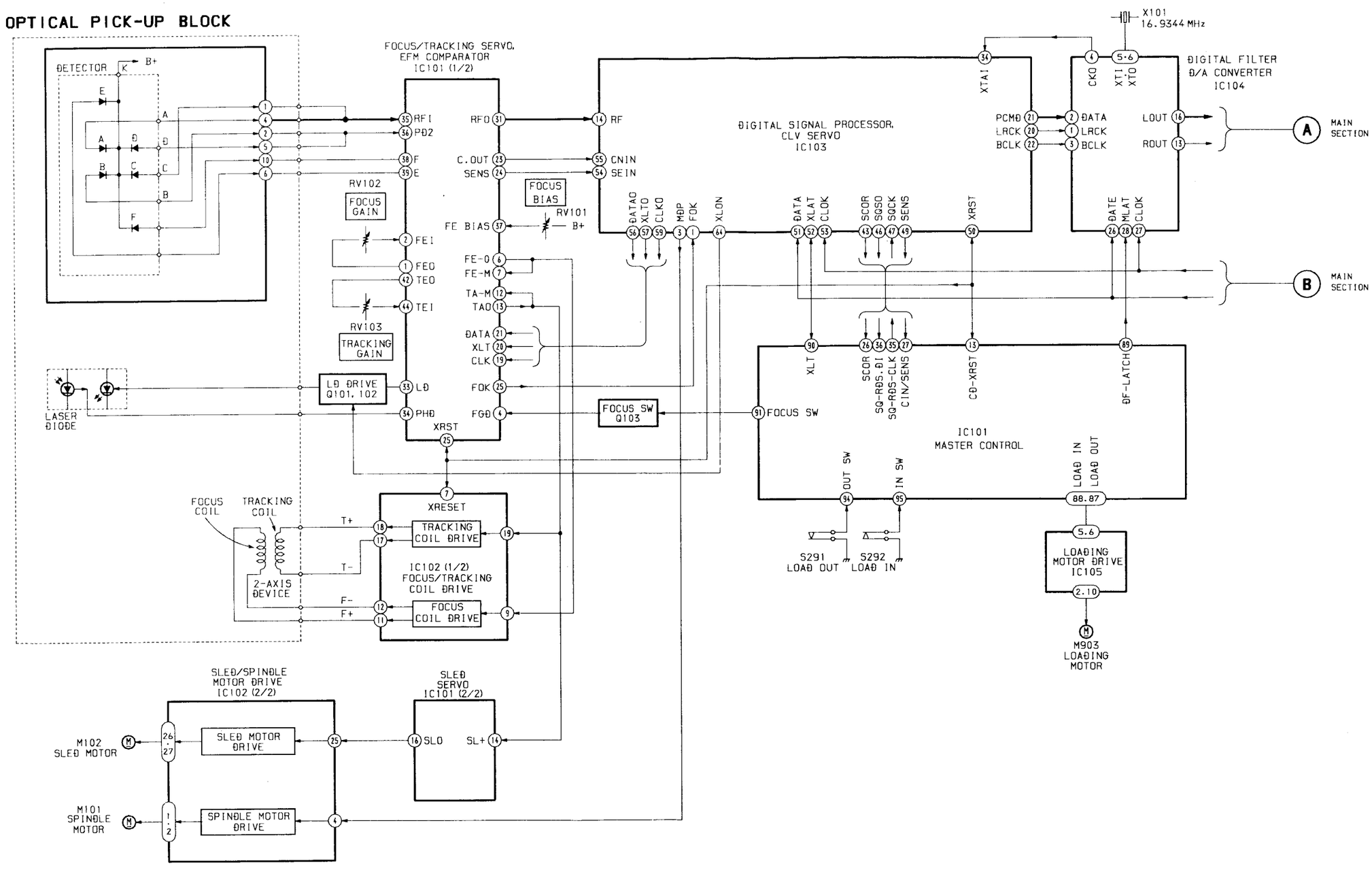
IC501 CXP82612-006Q (PANEL BOARD)

Pin No.	Pin name	I/O	Description
1	ENC1A	I	Volume encoder input terminal.
2	SIRCS	I	Remote commander signal input.
3	REQ. MG	I	Data transmission request input from master control.
4	REQ. GM	O	Data transmission request output to master control.
5	LED1	O	LED Drive output.
6	LED2	O	LED Drive output.
7	LED3	O	LED Drive output.
8	LED4	O	LED Drive output.
9	LED5	O	LED Drive output.
10	RDY	I/O	Master control Ready signal input/output. "L" : Ready
11	SCK. IN	I	Clock output for communications with master control.
12	SD. IN	I	Serial data input from master control.
13	SD. OUT	O	Serial data output to master control.
14	LED6	O	REC, PAUSE LED Output.
15	LED7	O	ROCK, USER FILE LED Output.
16	LED8	O	JAZZ, POPS LED Output.
17	LED9	O	CLASSIC, DANCE LED Output.
18	LED10	O	TUNER LED Output.
19	LED11	O	CD, TIMER LED Output.
20	LED12	O	BAND LED drive output.
21	LED13	–	TC A/B LED Drive output.
22	KEY1	I	Key input. (A/D Converter)
23	KEY2	I	
24	KEY3	I	
25	KEY4	–	
26	BPF1	I	
27	BPF2	I	
28	BPF3	I	
29	BPF4	I	
30	$\overline{RST}$	I	Reset signal input terminal.
31	X IN	I	System clock. (4MHz)
32	X OUT	O	
33	V_{SS}	–	GND
34	AN1	O	LCD Drive.
35	AN2	O	
36	AN3	O	
37	AN4	O	
38	AN5	O	
39	AN6	O	
40	AN7	O	

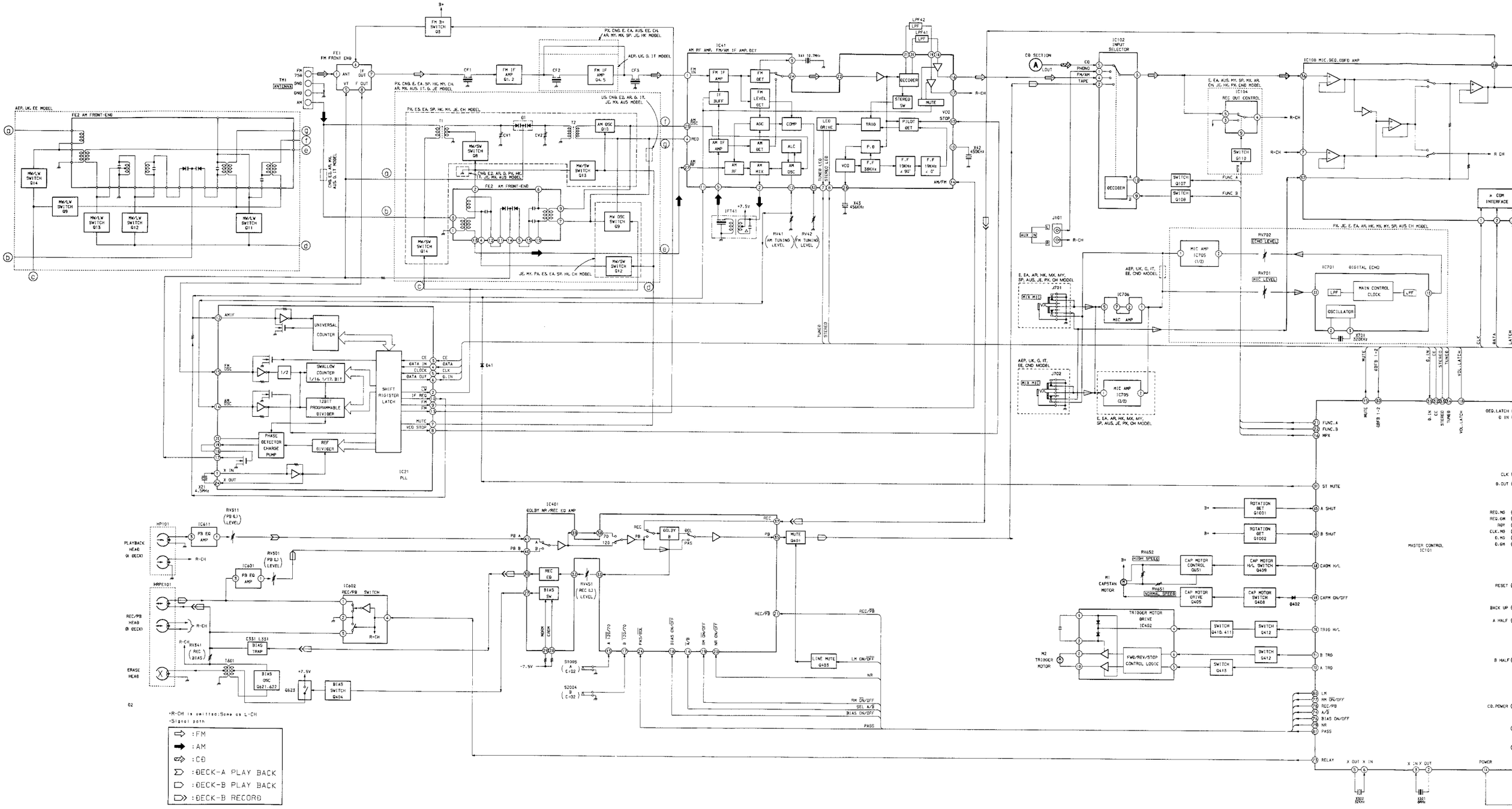
Pin No.	Pin name	I/O	Description
41	AN8	O	LCD Drive.
42	AN9	O	
43	AN10	O	
44	AN11	O	
45	AN12	O	
46	AN13	O	
47	AN14	O	
48	AN15	O	
49	AN16	O	
50	AN17	O	
51	AN18	O	
52	AN19	O	
53	AN20	O	
54	AN21	O	
55	AN22	O	
56	AN23	O	
57	AN24	O	
58	AN25	O	
59	GR1	O	
60	GR2	O	
61	GR3	O	
62	GR4	O	
63	GR5	O	
64	GR6	O	
65	GR7	O	
66	GR8	O	
67	GR9	O	
68	GR10	O	
69	GR11	O	
70	GR12	O	
71	VFDP	–	LCD drive – 25V power supply.
72	V_{DD}	–	Power supply. (+5V)
73	POWER KEY	I	System power key input.
74	EZ KEY	–	Not used. (+5V)
75	V_{DD}	–	Not used. (+5V)
76	LED14	O	Forward play, Revers play LED output.
77	LED15	O	KARAOKE PON LED output.
78	ENC 2B	I	AMS ENCODER input terminal.
79	ENC 2A	I	
80	ENC 1B	–	Volume ENCODER input terminal.

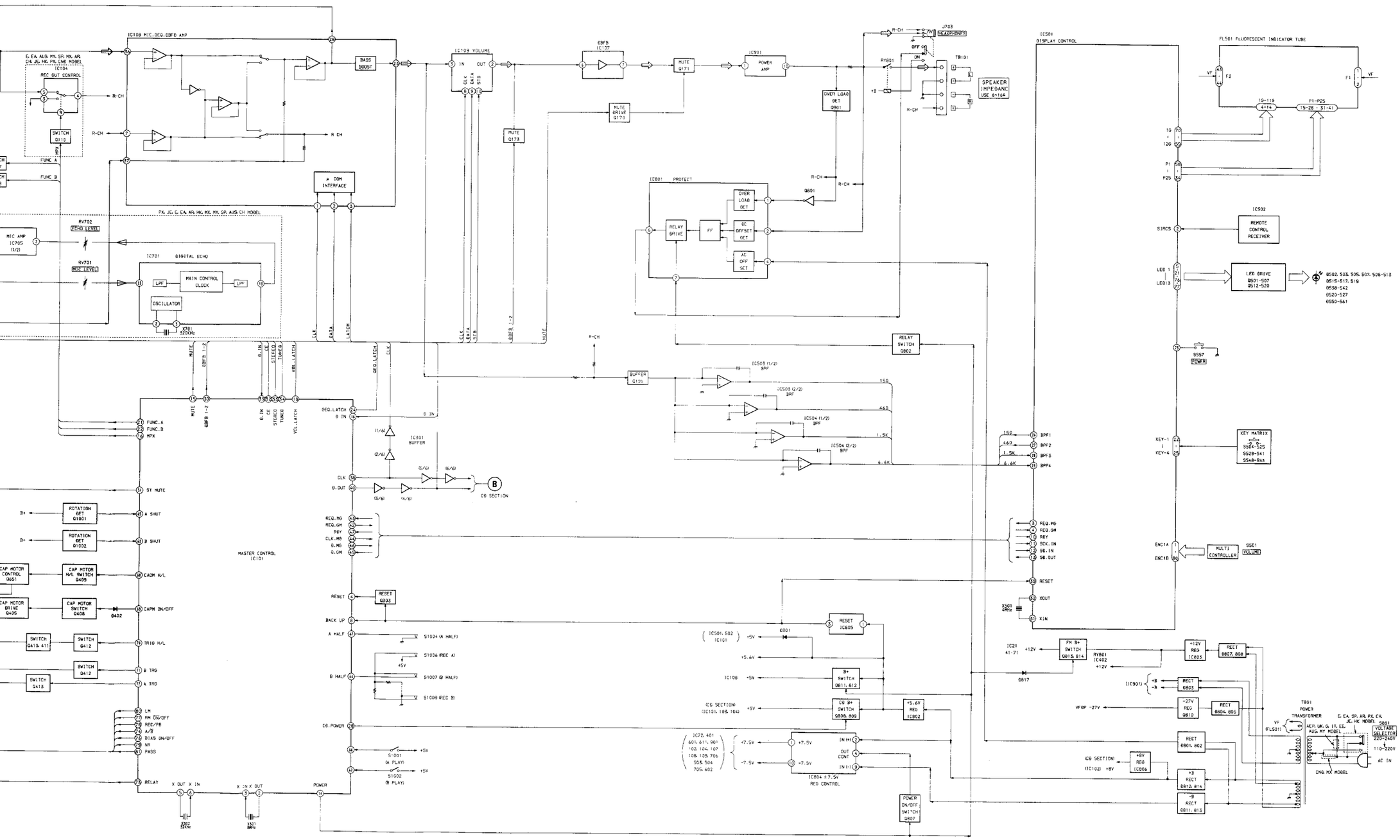
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD SECTION –



6-2. BLOCK DIAGRAM – MAIN SECTION –





PANEL board

PANEL board (

PANEL board

H

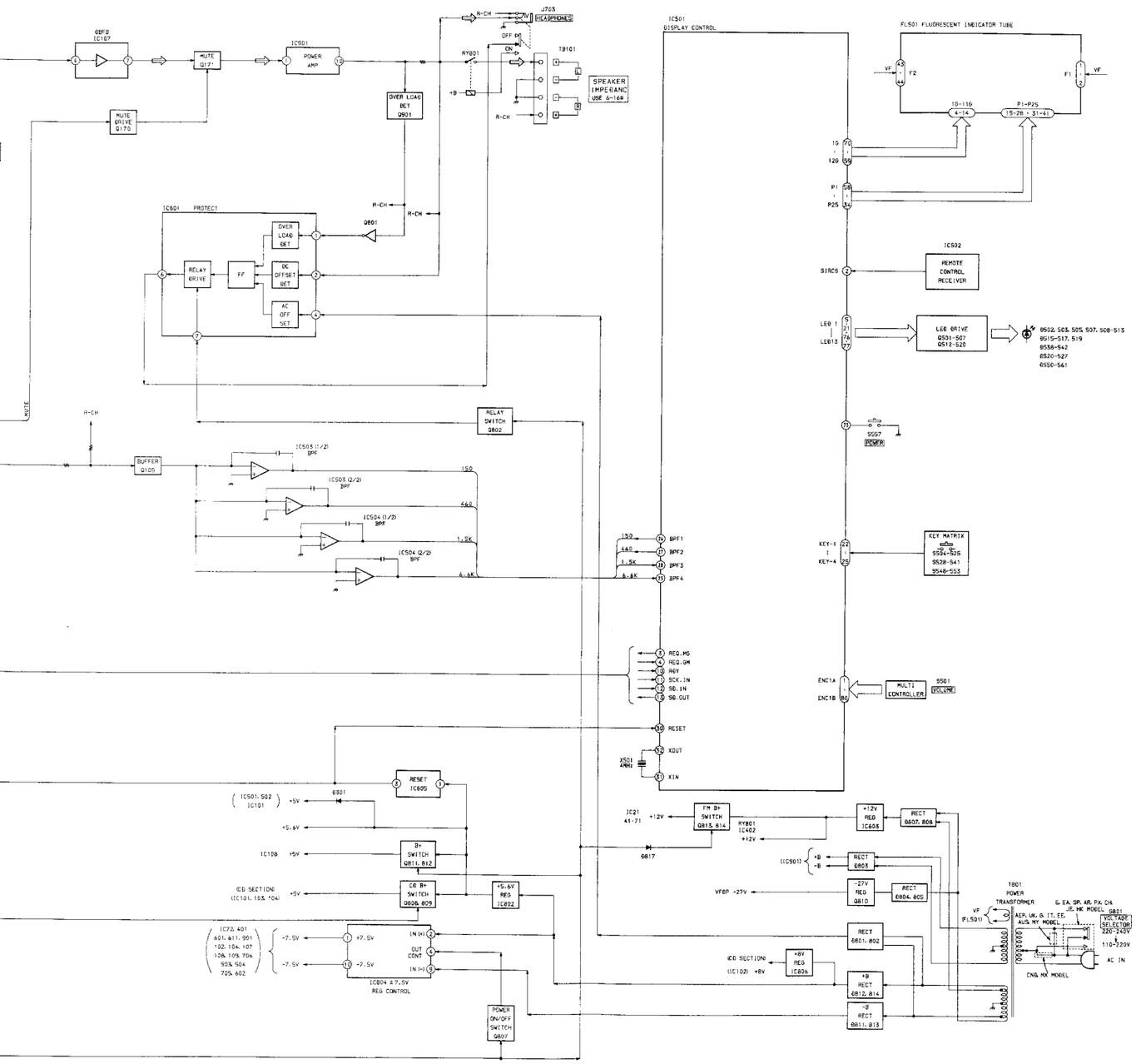
MID SE

DISC DETECTION (A) b

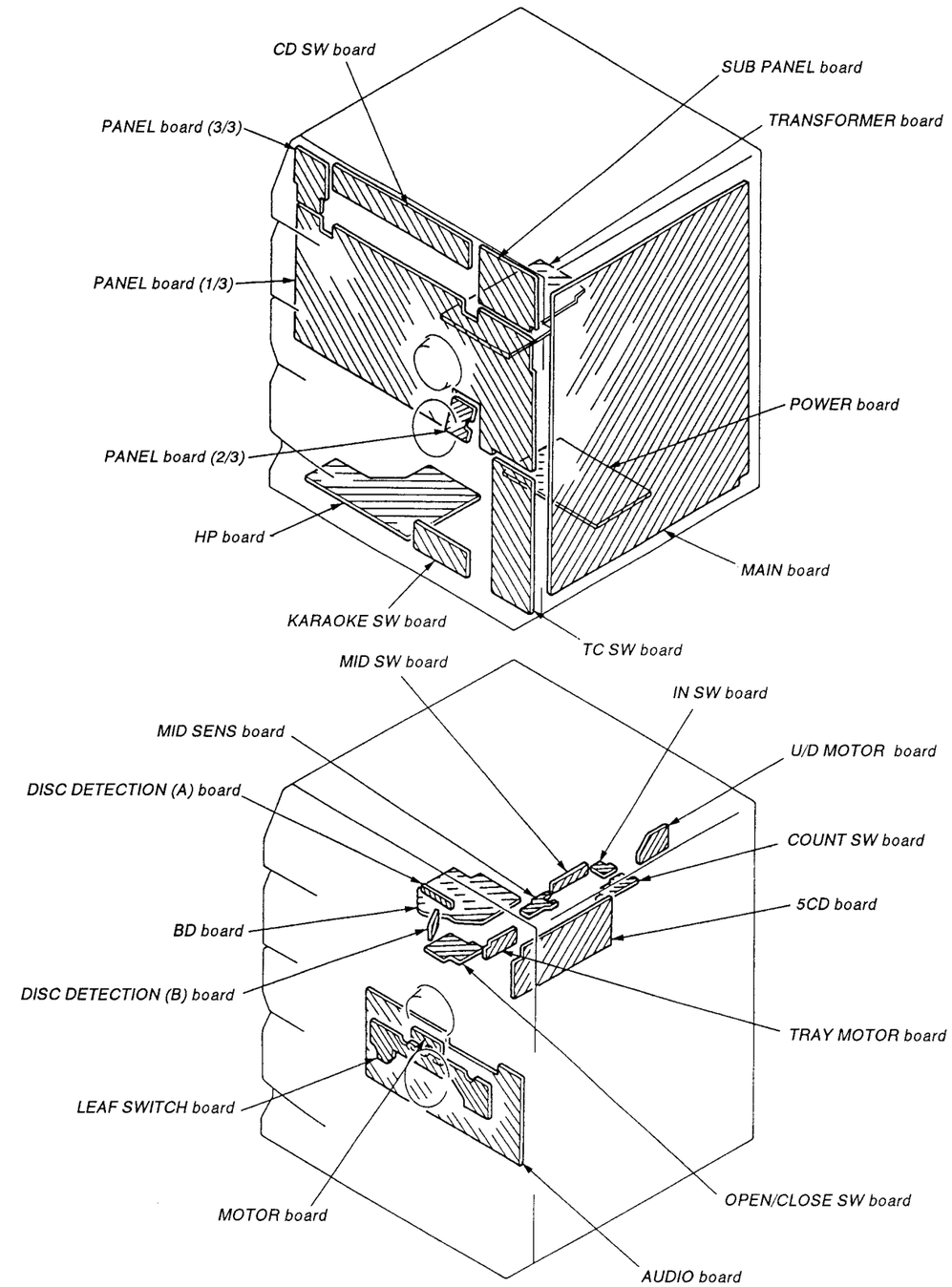
BD b

DISC DETECTION (B) bo

LEAF SWITCH bo



6-3. CIRCUIT BOARD LOCATION



• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D21	E - 2	IC706	D - 19
D41	F - 6	IC801	E - 10
D42	G - 3	IC802	E - 12
D43	G - 3	IC803	E - 12
D103	C - 8	IC804	D - 13
D104	H - 9	IC805	G - 18
D105	H - 9	IC806	B - 13
D106	H - 9	IC901	G - 23
D301	G - 8		
D302	H - 9		
		Q1	C - 3
D304	H - 8	Q2	D - 4
D401	G - 11	Q3	C - 3
D402	J - 10	Q4	D - 4
D801	E - 10	Q5	D - 4
D802	E - 10		
		Q8	B - 4
D803	C - 11	Q9	D - 5
D804	B - 12	Q10	D - 5
D805	B - 12	Q11	D - 5
D806	B - 12	Q12	C - 3
D807	D - 12		
		Q13	C - 3
D808	D - 12	Q14	B - 4
D809	D - 9	Q105	B - 6
D810	D - 9	Q107	F - 8
	(MAIN)	Q108	F - 9
	G - 21		
	(POWER)	Q110	F - 8
D811	D - 11	Q170	G - 7
D812	D - 11	Q171	C - 6
		Q172	C - 6
D813	D - 11	Q173	C - 7
D814	D - 11		
D815	G - 8	Q174	C - 7
D817	E - 11	Q303	H - 8
D819	G - 8	Q401	G - 14
		Q403	G - 11
D823	D - 12	Q404	G - 13
D824	E - 13		
D901	H - 22	Q405	H - 11
	(POWER)	Q408	H - 11
	F - 8	Q409	H - 12
	(MAIN)	Q410	H - 12
D902	F - 21	Q411	H - 11
	(POWER)		
	F - 8	Q412	H - 11
	(MAIN)	Q413	H - 11
D903	E - 22	Q414	H - 11
		Q451	H - 14
D951	E - 22	Q801	E - 9
D1001	B - 9		
D1002	B - 9	Q802	E - 10
		Q807	E - 14
		Q808	E - 11
IC21	E - 3	Q809	E - 11
IC41	F - 5	Q810	B - 13
IC101	I - 8		
IC102	F - 8	Q811	F - 12
IC104	F - 7	Q812	F - 12
		Q813	E - 10
IC107	C - 6	Q814	E - 11
IC109	B - 6	Q901	H - 12
IC301	I - 6		
IC401	J - 12	Q951	E - 22
IC402	G - 12	Q1001	B - 9
		Q1002	B - 9
IC701	D - 17		
IC705	D - 18		

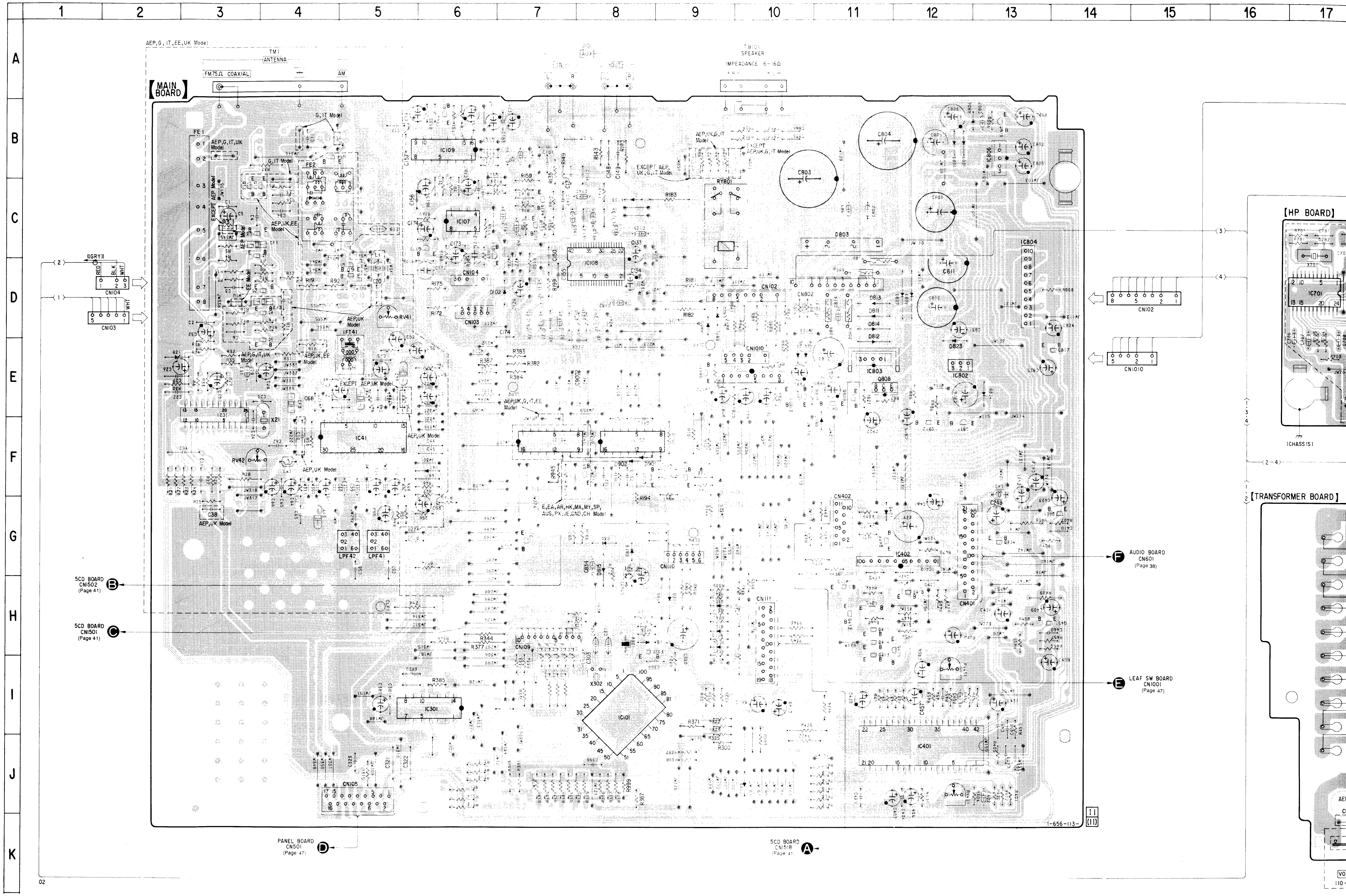
Note:

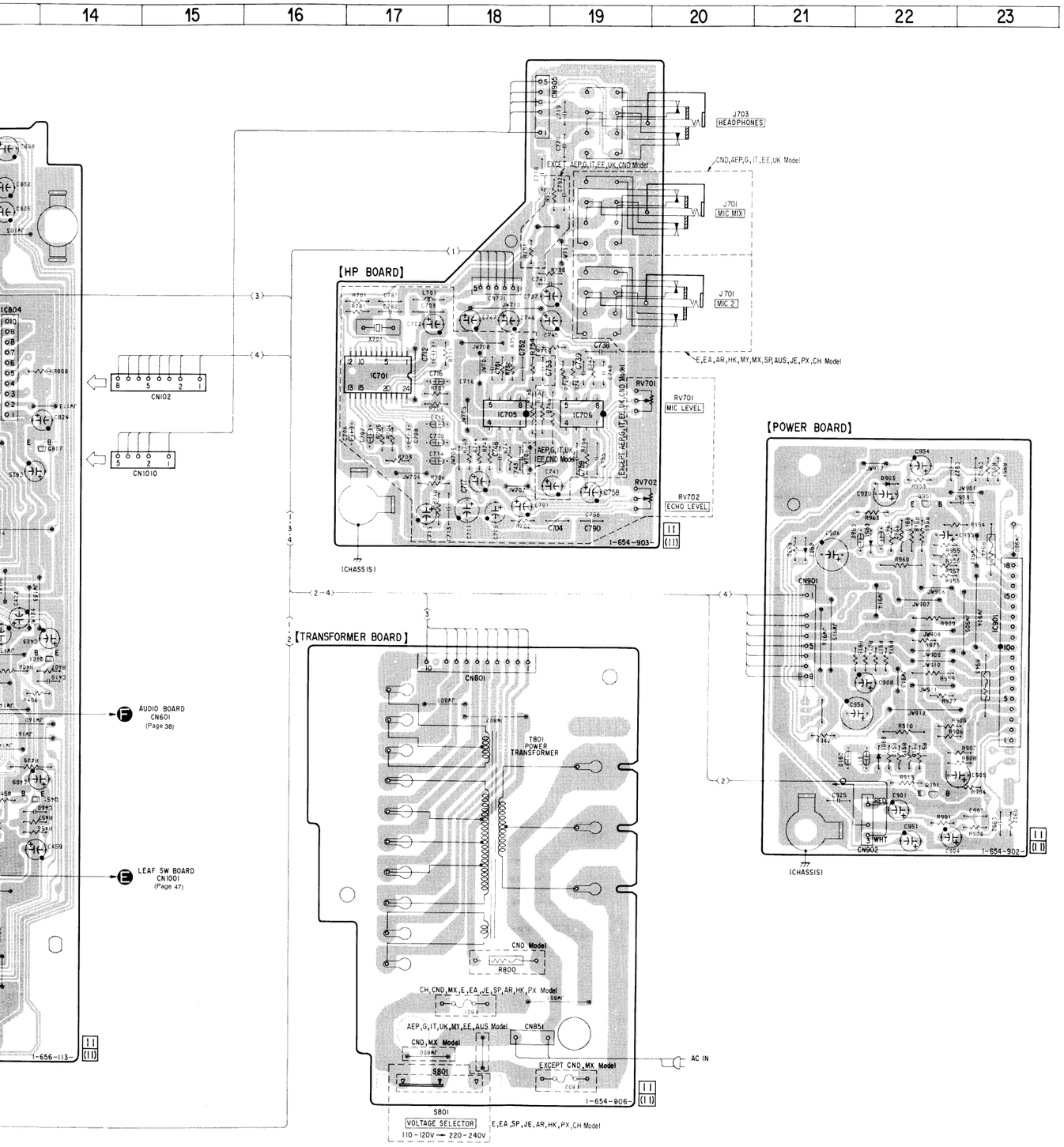
- O— : parts extracted from the component side.
- ░░░ : Pattern on the side which is seen.

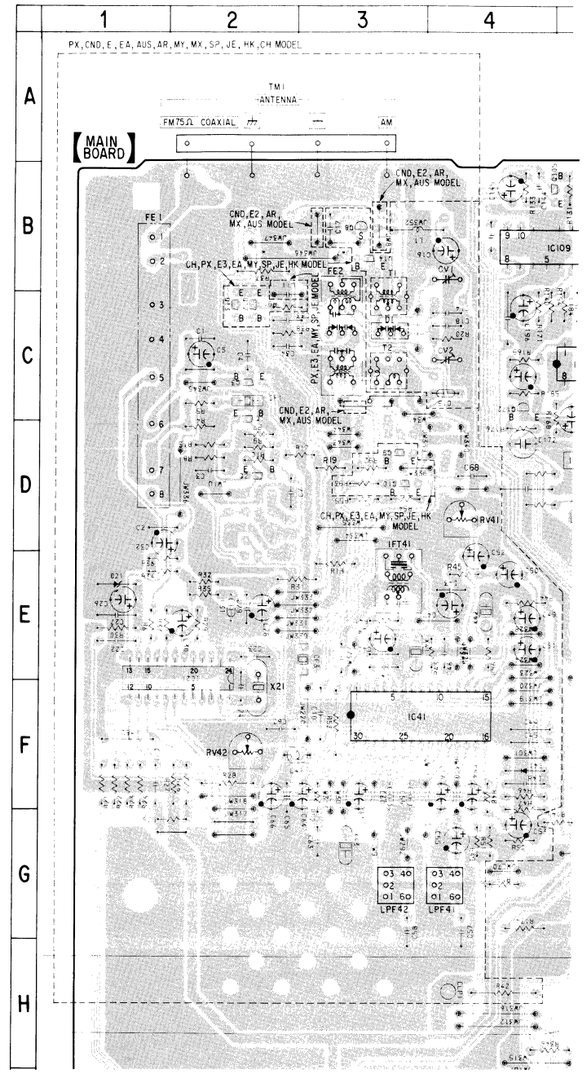
• Abbreviation

CND : Canadian
G : German
IT : Italian
EE : East European
AUS : Australian
EA : Saudi Arabia
AR : Argentine
HK : Hong Kong
MX : Mexican
MY : Malaysia
SP : Singapore
JE : Tourist
CH : Chinese

6-4. PRINTED WIRING BOARDS – MAIN SECTION –

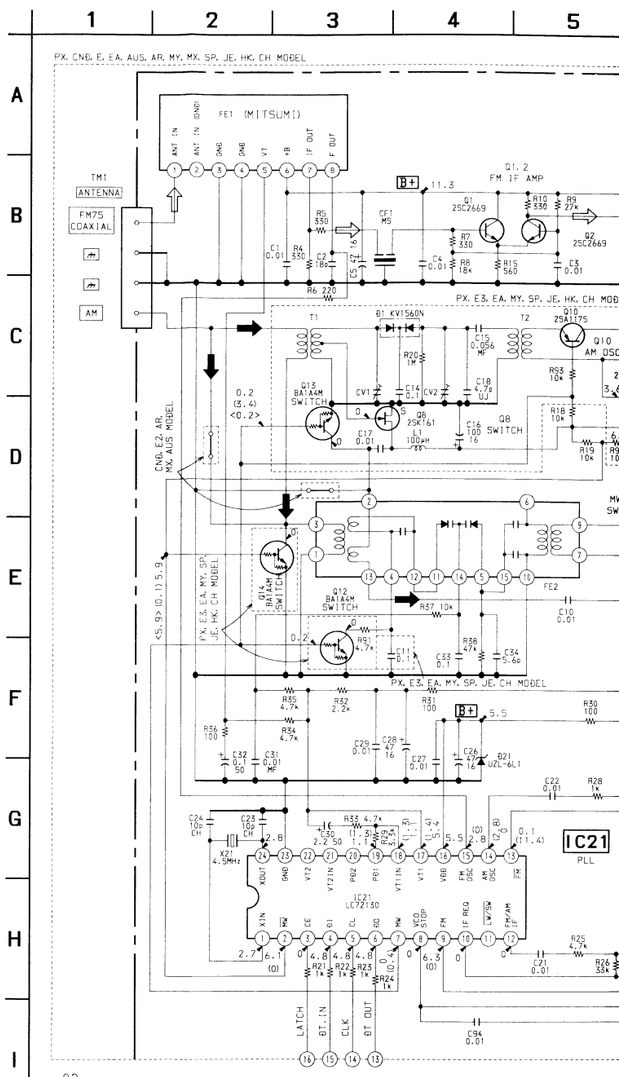




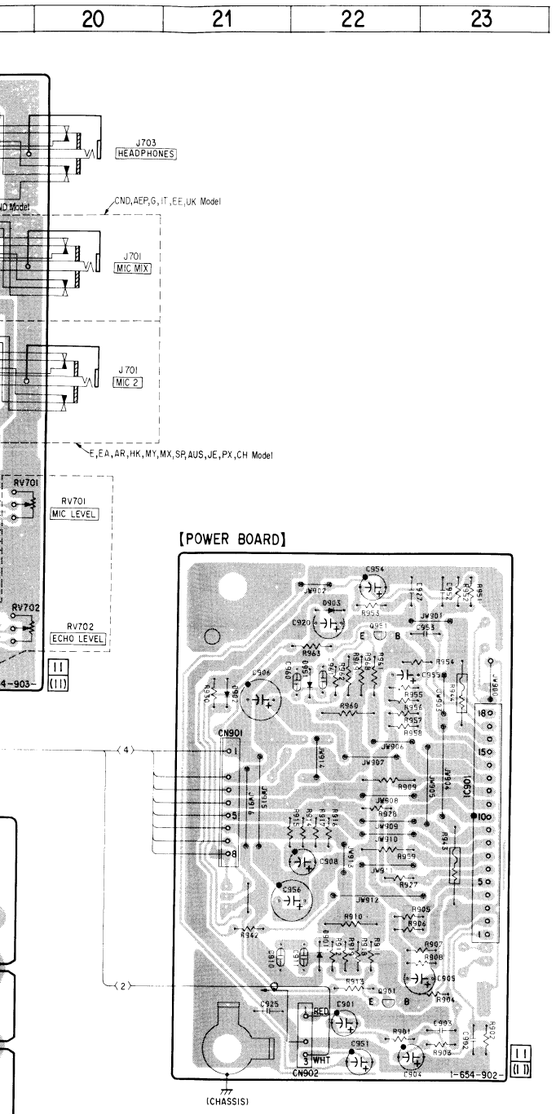


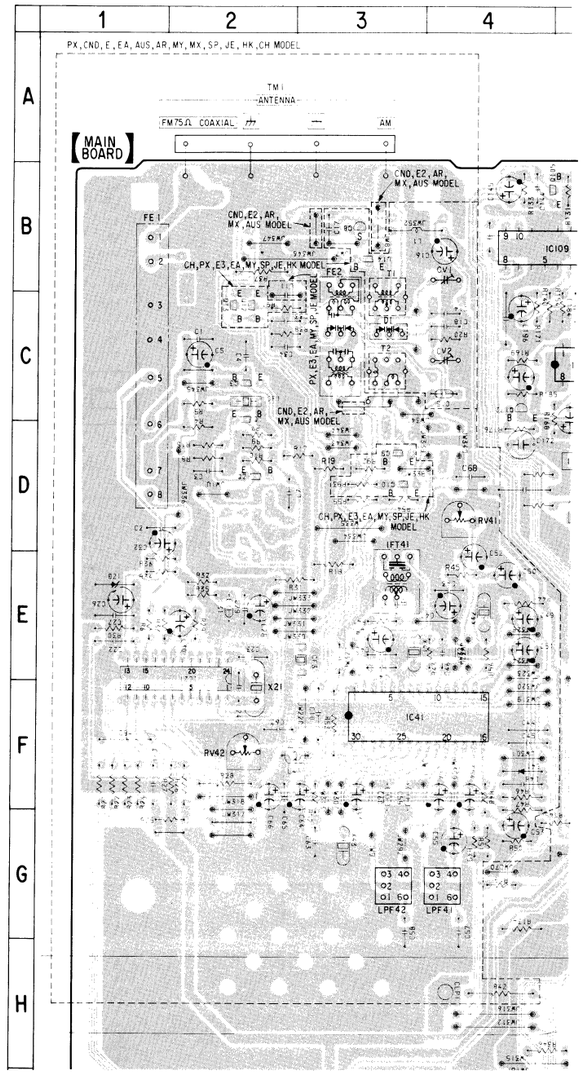
● SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	C - 3
IC21	E - 2
IC41	F - 3
Q1	C - 2
Q2	D - 2
Q3	C - 2
Q8	B - 3
Q9	D - 3
Q10	D - 3
Q12	C - 2
Q13	C - 2
Q14	B - 3



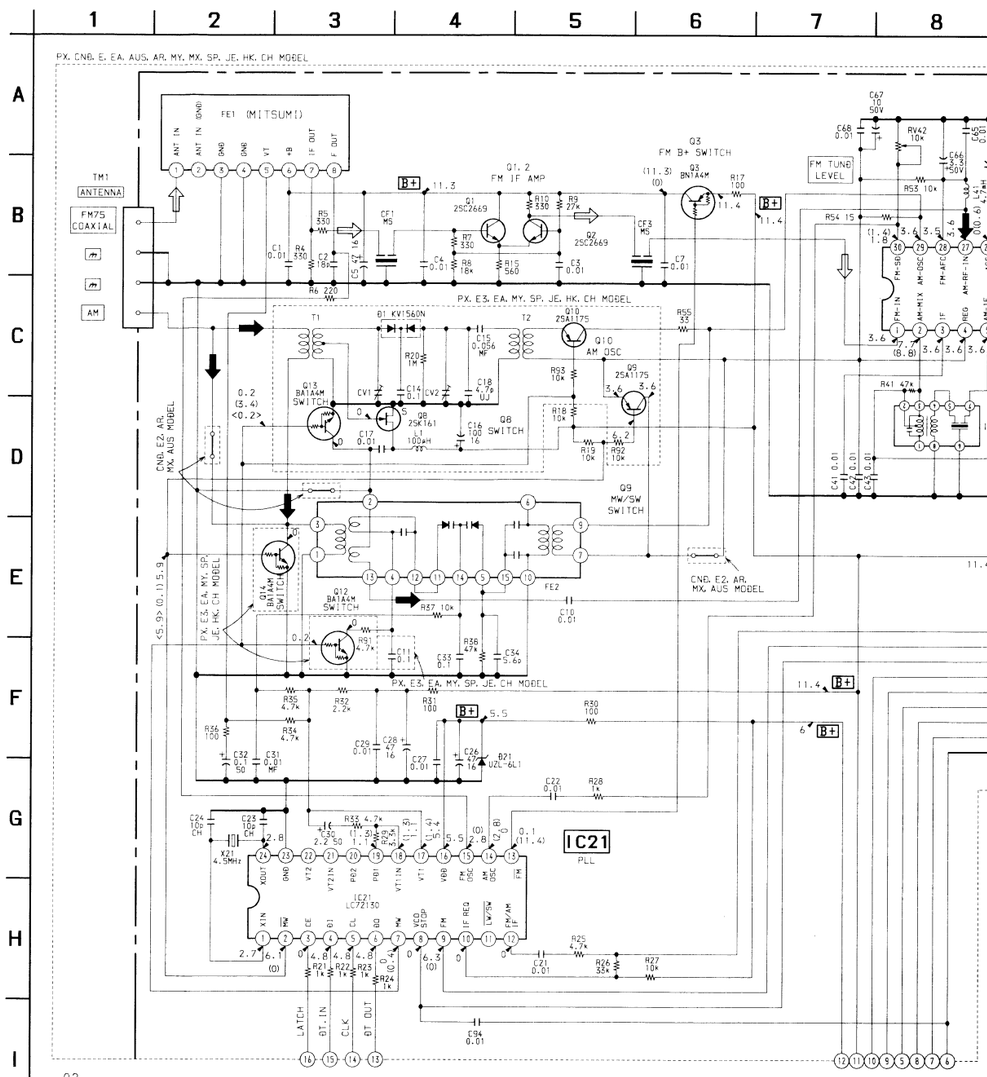
02





● **SEMICONDUCTOR LOCATION**

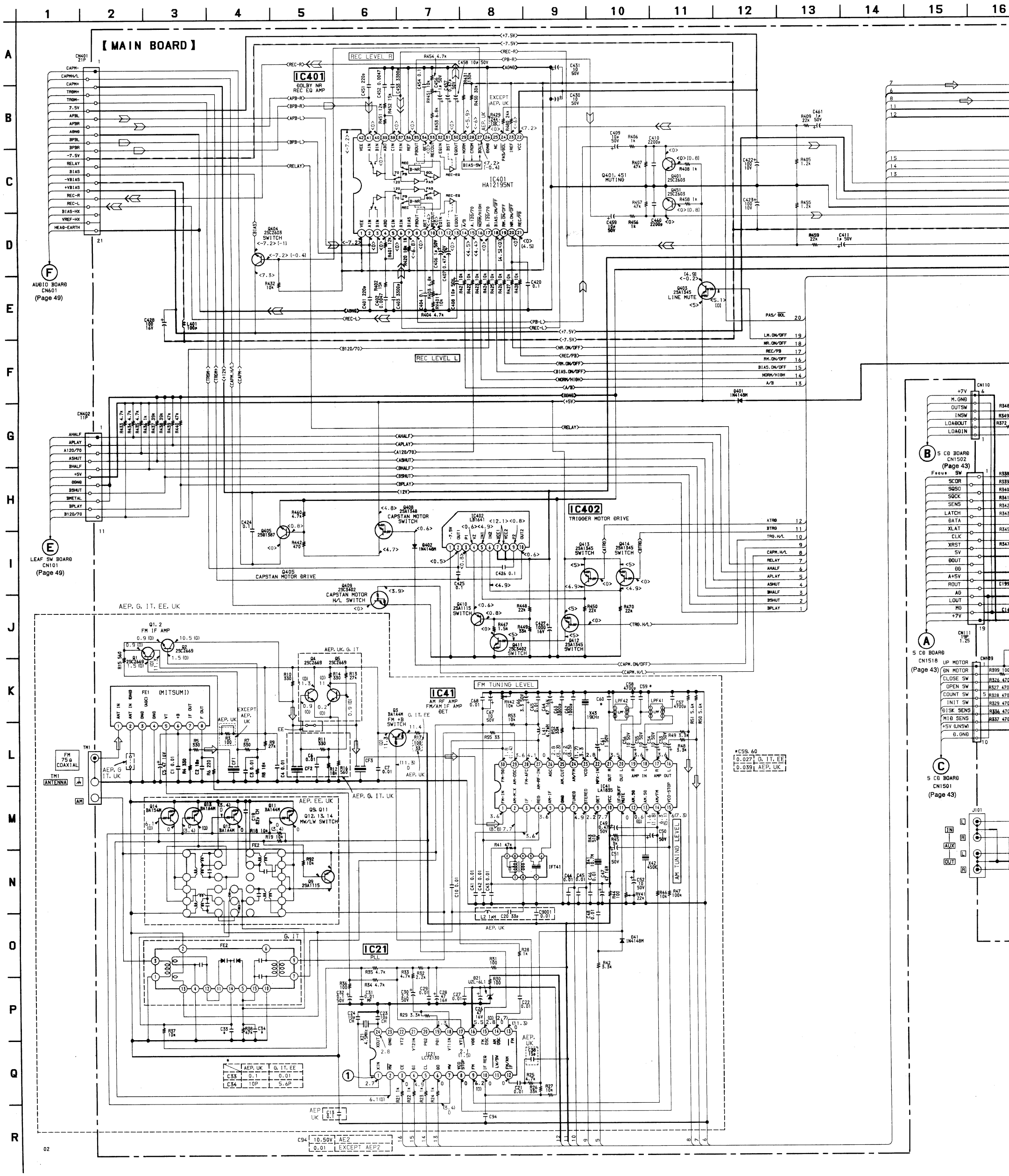
Ref. No.	Location
D1	C - 3
IC21	E - 2
IC41	F - 3
Q1	C - 2
Q2	D - 2
Q3	C - 2
Q8	B - 3
Q9	D - 3
Q10	D - 3
Q12	C - 2
Q13	C - 2
Q14	B - 3



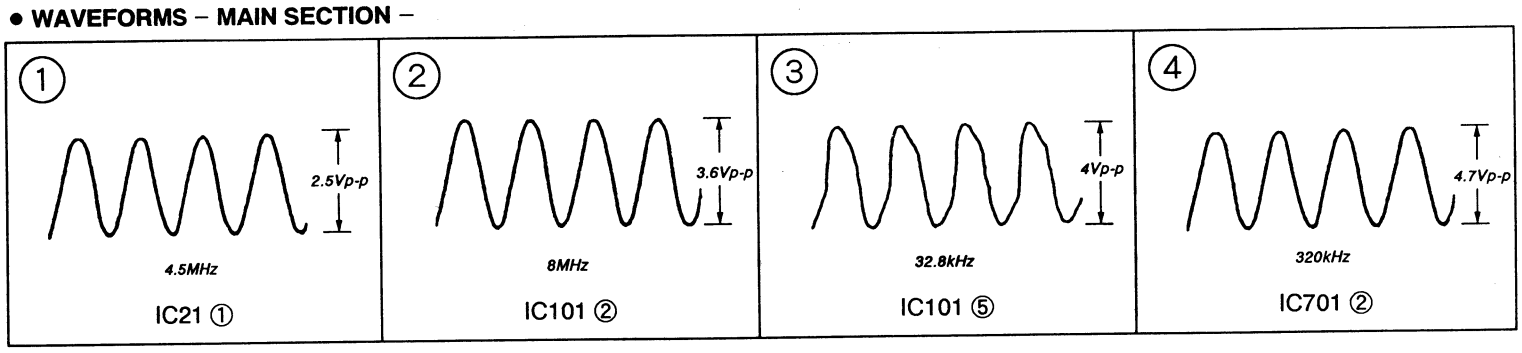
02

6-5. SCHEMATIC DIAGRAM – MAIN SECTION –

● Refer to page 51 for IC Block Diagrams.



• WAVEFORMS – MAIN SECTION –



15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

	AEP, UK	E2, MX	E3, SP, MY, HK, PX, CH	JE	CNØ	G	IT	EE
R367	10K	22K	15K	15K	JW	10K	10K	3.3K
R999	22K	10K	3.3K	1.2K	—	10K	15K	15K

IC101 TMP87CP64F MASTER CONTROL

IC102 INPUT SELECTOR

IC104 MPX CONTROL

IC109 VOLUME

IC301 BUFFER

IC705 ECHO AMP

IC706 MIC AMP

IC805 RESET

IC701 DIGITAL ECHO

【 HP BOARD 】

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

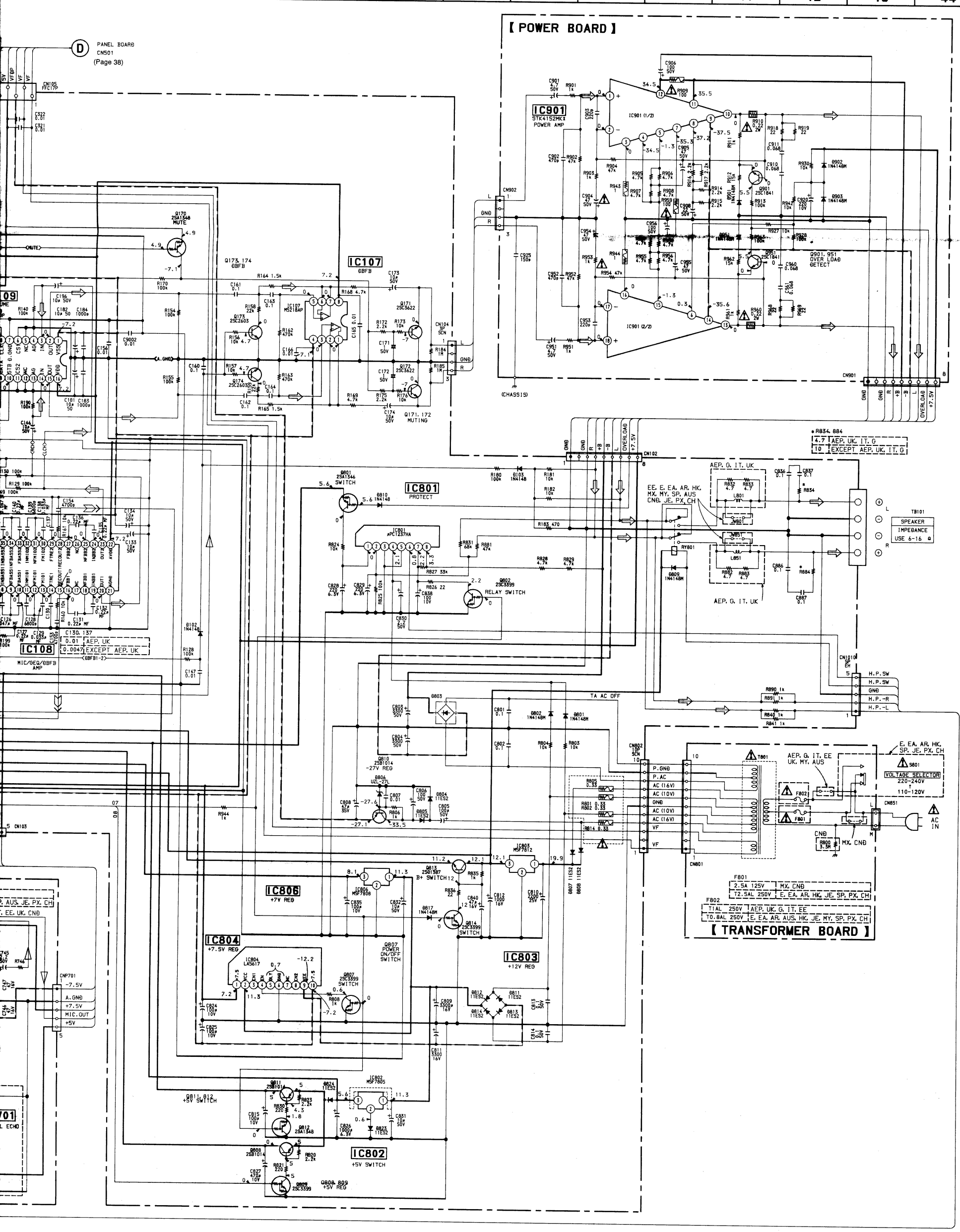
Note :	**Note :**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B+ Line
- ▬ ▬ ▬ : B − Line
- ▭ : adjustment for repair.

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  - no mark : FM
  - ( ) : AM
  - ( ) : PLAY
  - [ ] : REC (DECK B)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : PB (DECK A)
  - ⇨ : PB (DECK B)
  - ⇨ : REC (DECK B)
  - ⇨ : CD
  - ▷ : MIC

- Abbreviation
  - CND : Canadian
  - G : German
  - IT : Italian
  - EE : East European
  - AUS : Australian
  - EA : Saudi Arabia
  - AR : Argentine
  - HK : Hong Kong
  - MX : Mexican
  - MY : Malaysia
  - SP : Singapore
  - JE : Tourist
  - CH : Chinese

30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44



6-6. SCHEMATIC DIAGRAM – PANEL SECTION –

【 PANEL BOARD 】

【 SUB PANEL BOARD 】

【 TC SW BOARD 】

【 KARAOKE SW BOARD 】

【 CD SW BOARD 】

FL501
FLUORESCENT LAMP

IC501
CXP82612
IC501
DISPLAY CONTROL
TOP VIEW

IC502
RECEIVE
JC502
GP1U57XB

S557 SYSTEM POWER
S501 VOLUME
S502
S506 FUNCTION
S505 DISPLAY
S504 CLOCK
S519 TUNER/BAND
S518 ENTER/NEXT
S517 TUNER MEMORY
S541 MONO
S540 TUNING MODE
S539 CONTINUE
S538 SHUFFLE
S537 PROGRAM
S536 TIMER REC
S535 DAYLY
S534 TIMER SET
S533 DANSE
S532 CLASSIC
S531 JAZZ
S553 PAUSE
S552 REC
S551 HIGH SPEED DUBBING
S550 CD SYNCHRO
S549 DIRECTION
S548 DOLBY NR
Q502 2SB1014 SWITCH
Q504–507 Q511–520 LED DRIVE
2SA1115

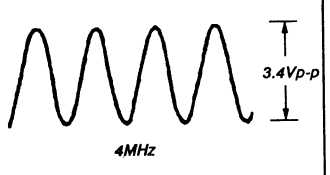
• WAVEFORM –

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

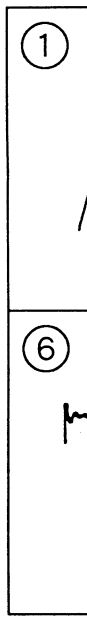
• WAVEFORM – PANEL SECTION –

①



IC501 ㉛

• WAV

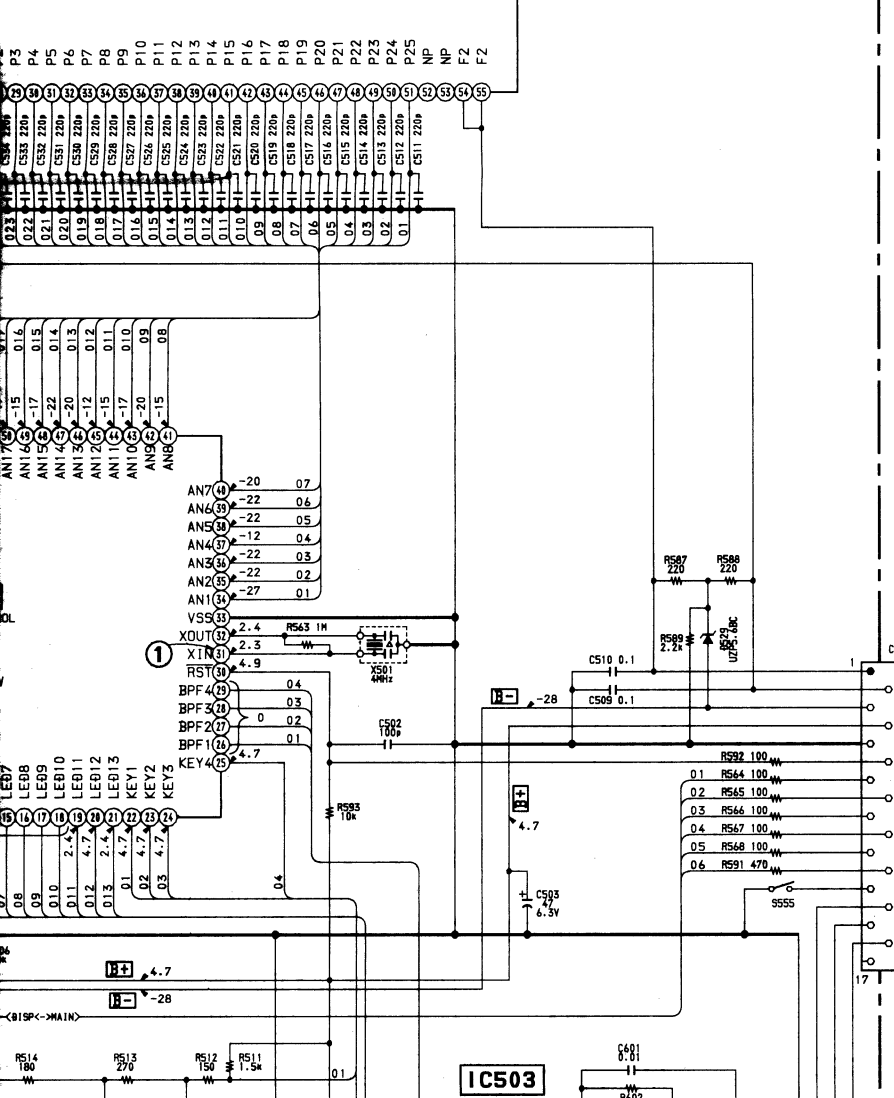


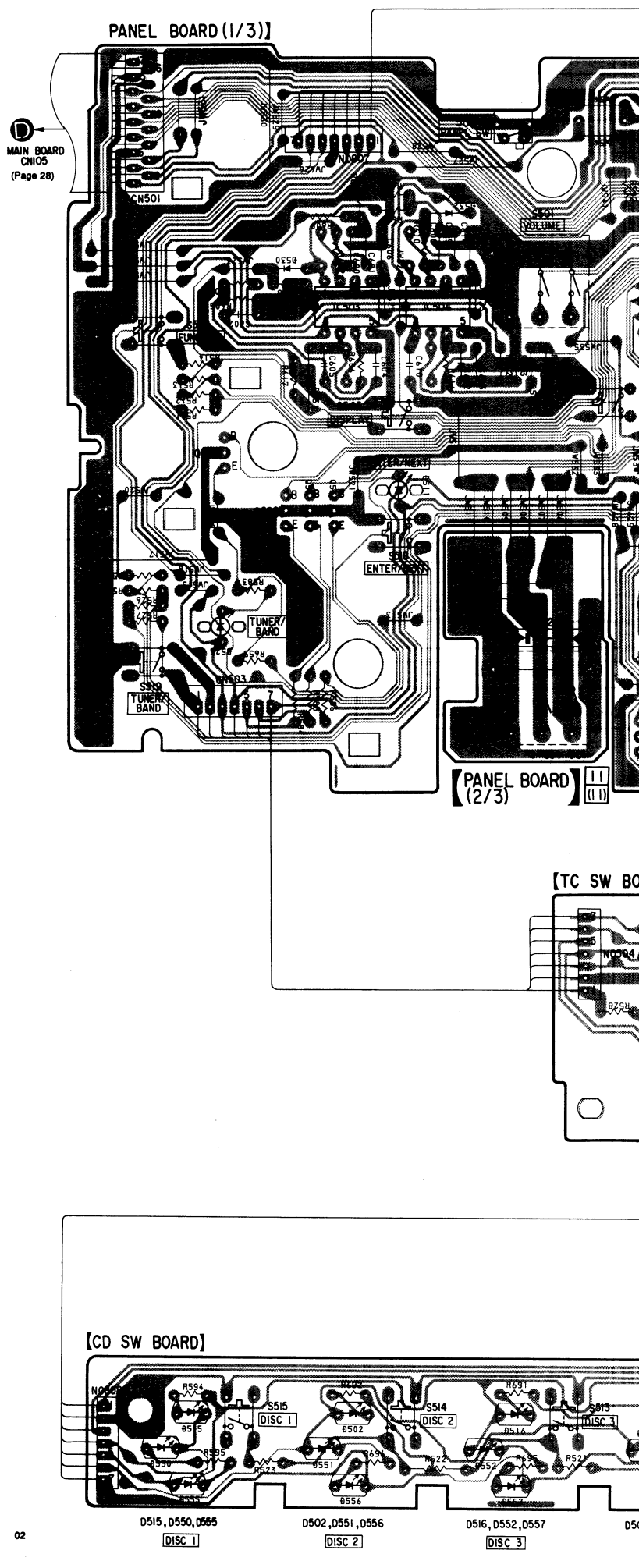
15	16	17	18	19	20	21	22

6-7. PRINTED WIRING BOARDS – PANEL SECTION –

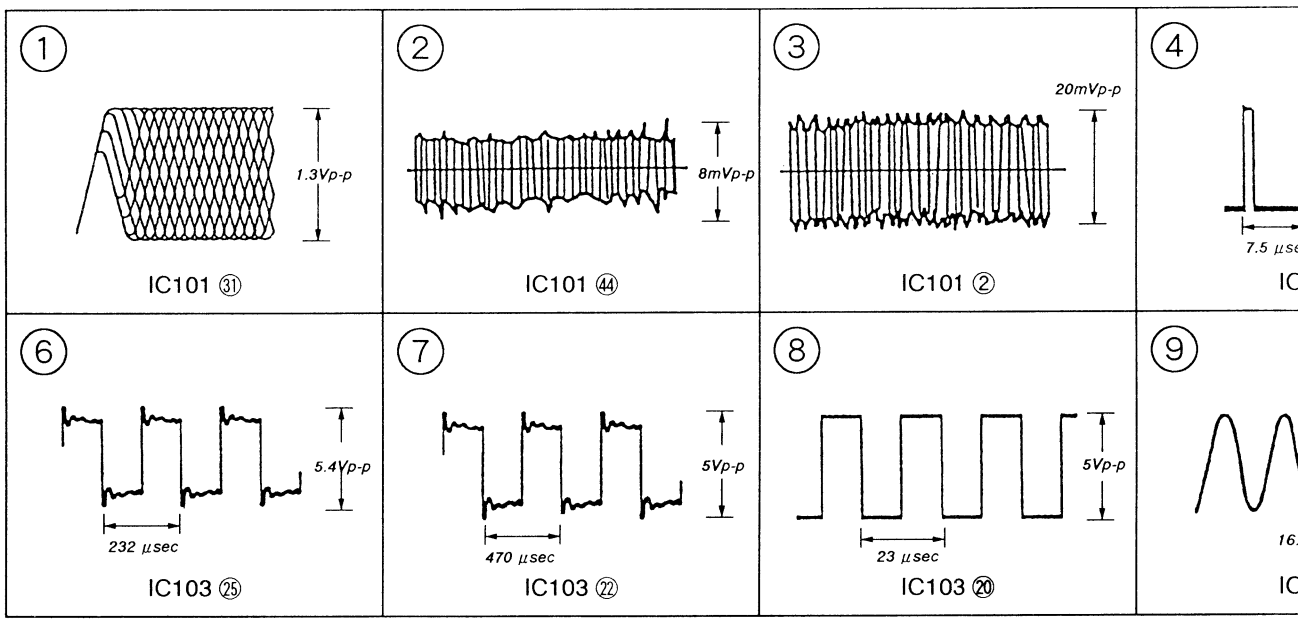
1	2	3	4

A B C D E F G H I J

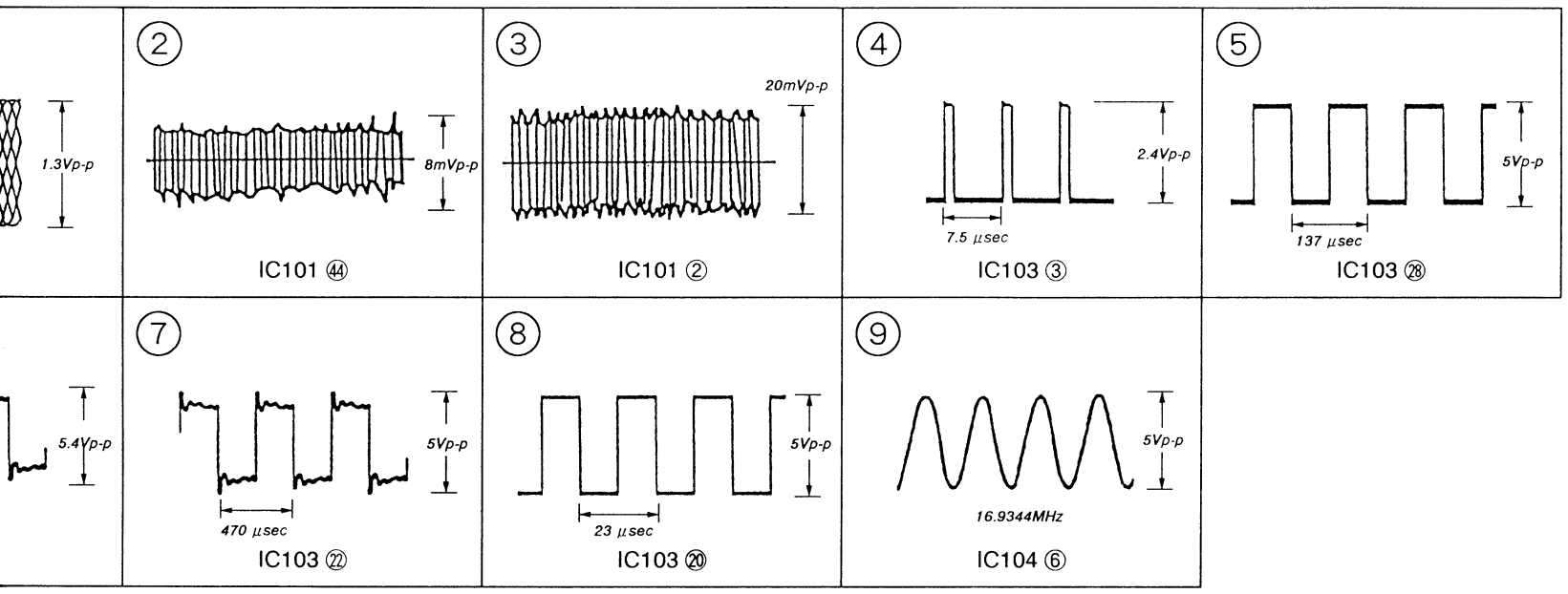




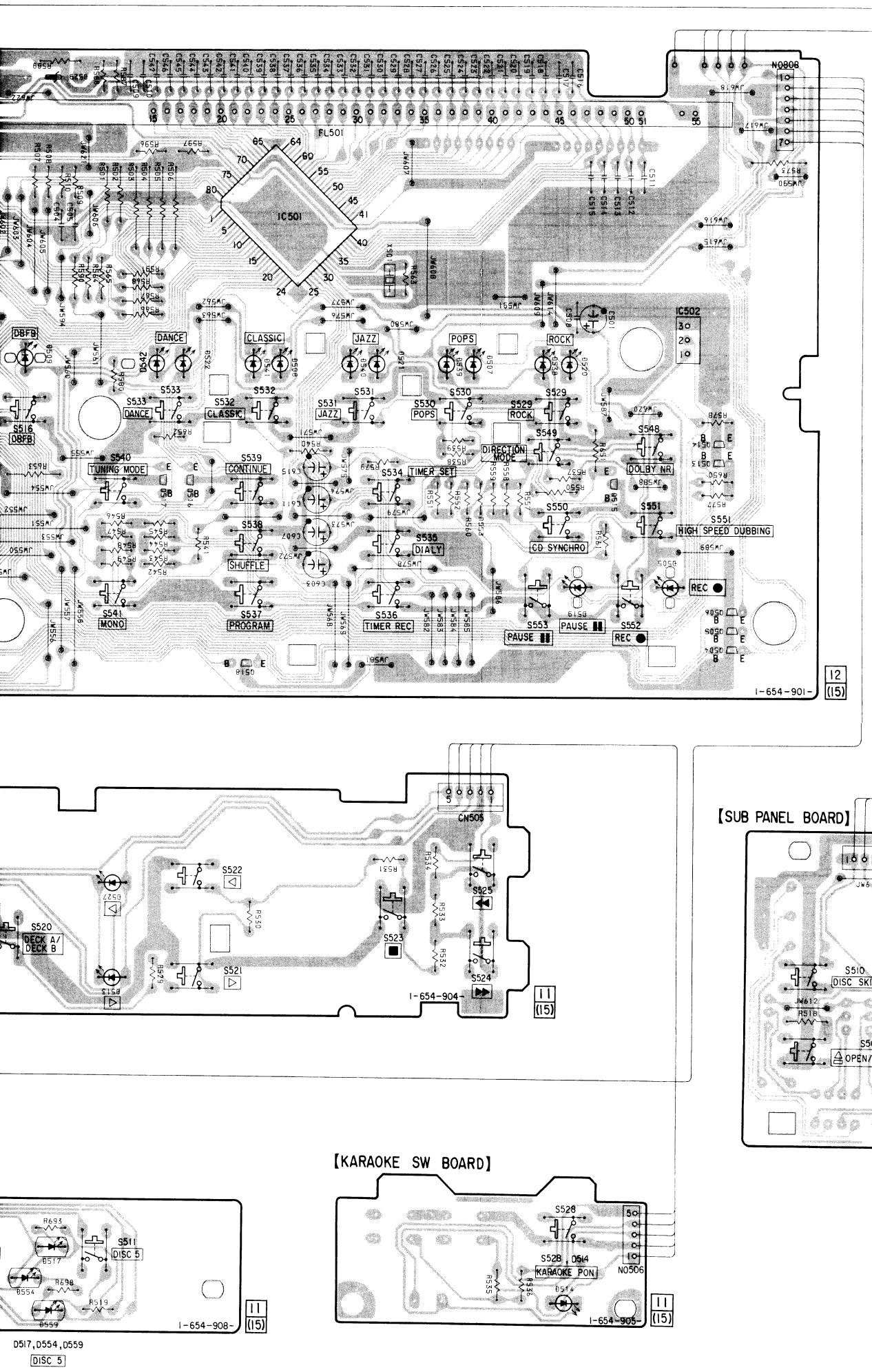
• WAVEFORMS – BD SECTION –



6-7. PRINTED WIRING BOARDS – PANEL SECTION –



6	7	8	9	10	11	12	13	14	



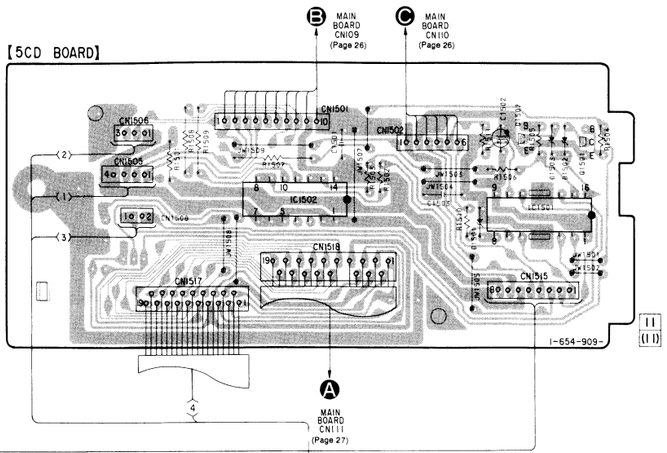
● SEMICONDUCTOR LOCATION

Ref. No.	Location
D502	J - 3
D503	J - 5
D504	H - 13
D505	E - 11
D507	C - 9
D508	C - 8
D509	C - 6
D510	E - 5
D511	D - 3
D512	G - 5
D513	H - 7
D514	J - 10
D515	J - 2
D516	J - 4
D517	J - 6
D519	E - 10
D520	C - 10
D521	C - 9
D522	C - 7
D523	D - 5
D524	E - 5
D525	E - 2
D526	H - 5
D527	G - 7
D529	A - 6
D530	B - 3
D531	C - 3
D532	B - 4
D533	C - 4
D538	C - 10
D539	C - 9
D540	C - 8
D541	C - 8
D542	C - 7
D550	J - 2
D551	J - 3
D552	J - 4
D553	J - 5
D554	J - 6
D555	J - 2
D556	J - 3
D557	J - 4
D558	J - 5
D559	J - 6
D560	G - 5
D561	H - 5
IC501	B - 8
IC502	C - 11
IC503	C - 3
IC504	C - 4
Q501	E - 5
Q502	E - 5
Q503	D - 5
Q504	E - 11
Q505	E - 11
Q506	E - 11
Q507	E - 5
Q511	D - 3
Q512	D - 3
Q513	D - 11
Q514	D - 11
Q515	D - 10
Q516	D - 7
Q517	D - 7
Q518	F - 8
Q519	D - 2
Q520	D - 2

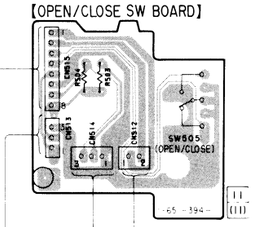
Note:

- O— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

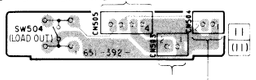
【5CD BOARD】



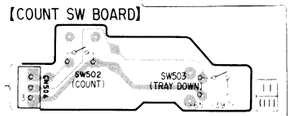
【OPEN/CLOSE SW BOARD】



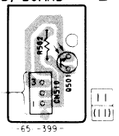
【MID SW BOARD】



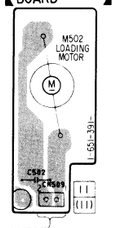
【COUNT SW BOARD】



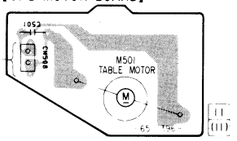
【DISC DETECTION (B) BOARD】



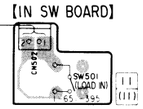
【TRAY MOTOR BOARD】



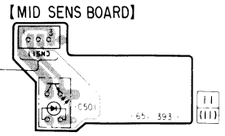
【U/D MOTOR BOARD】



【IN SW BOARD】

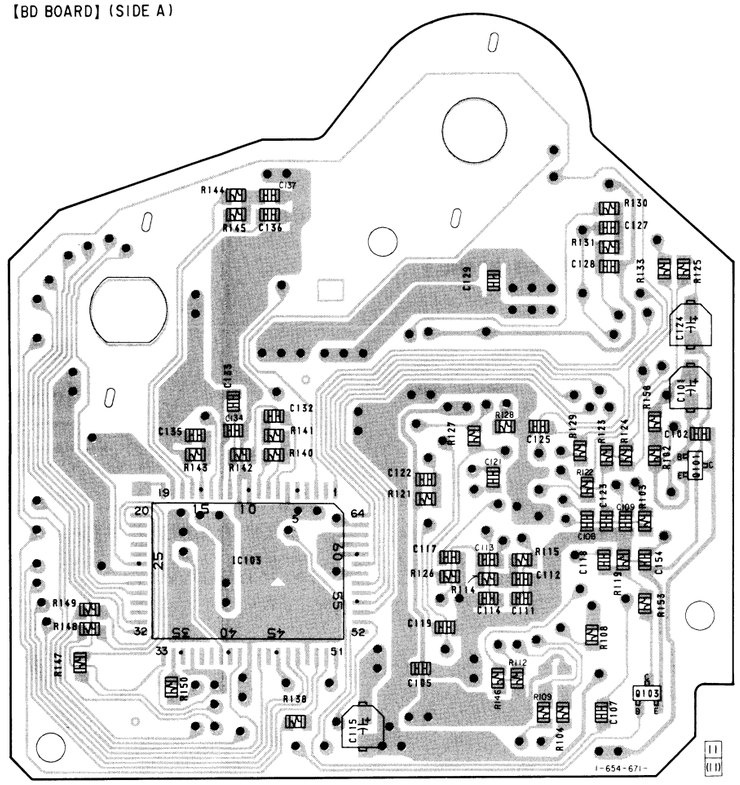


【MID SENS BOARD】

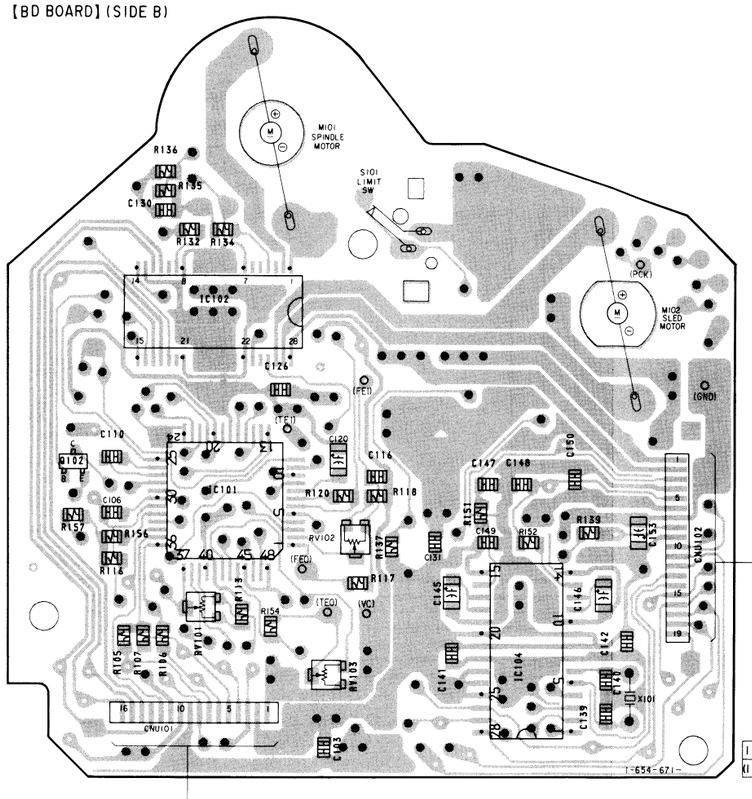


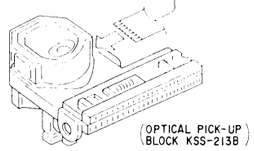
【DISC DETECTION (A) BOARD】

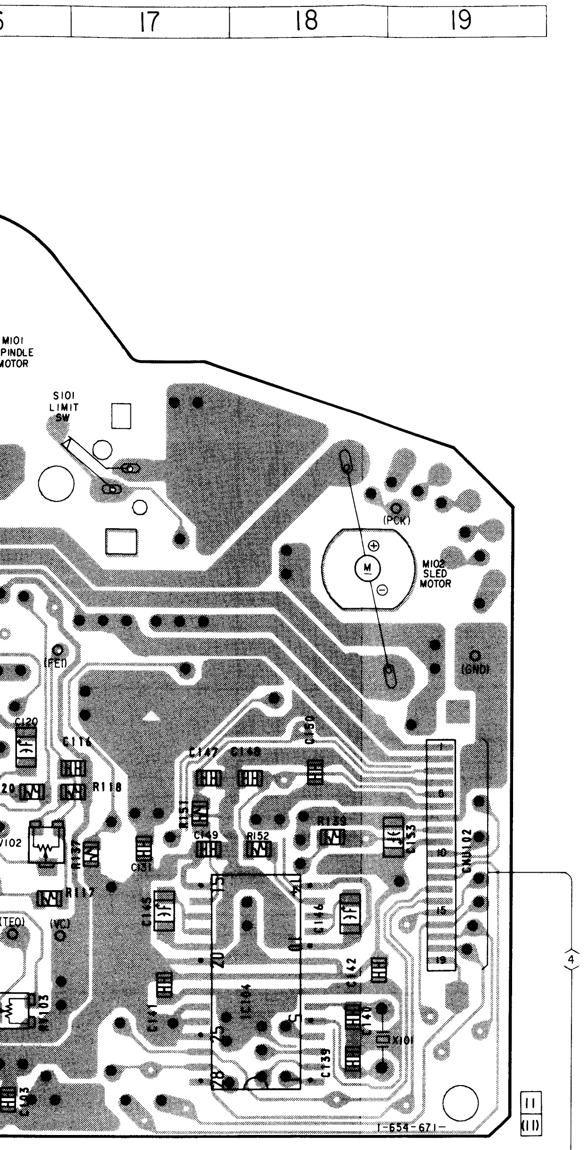
【BD BOARD】(SIDE A)



【BD BOARD】(SIDE B)

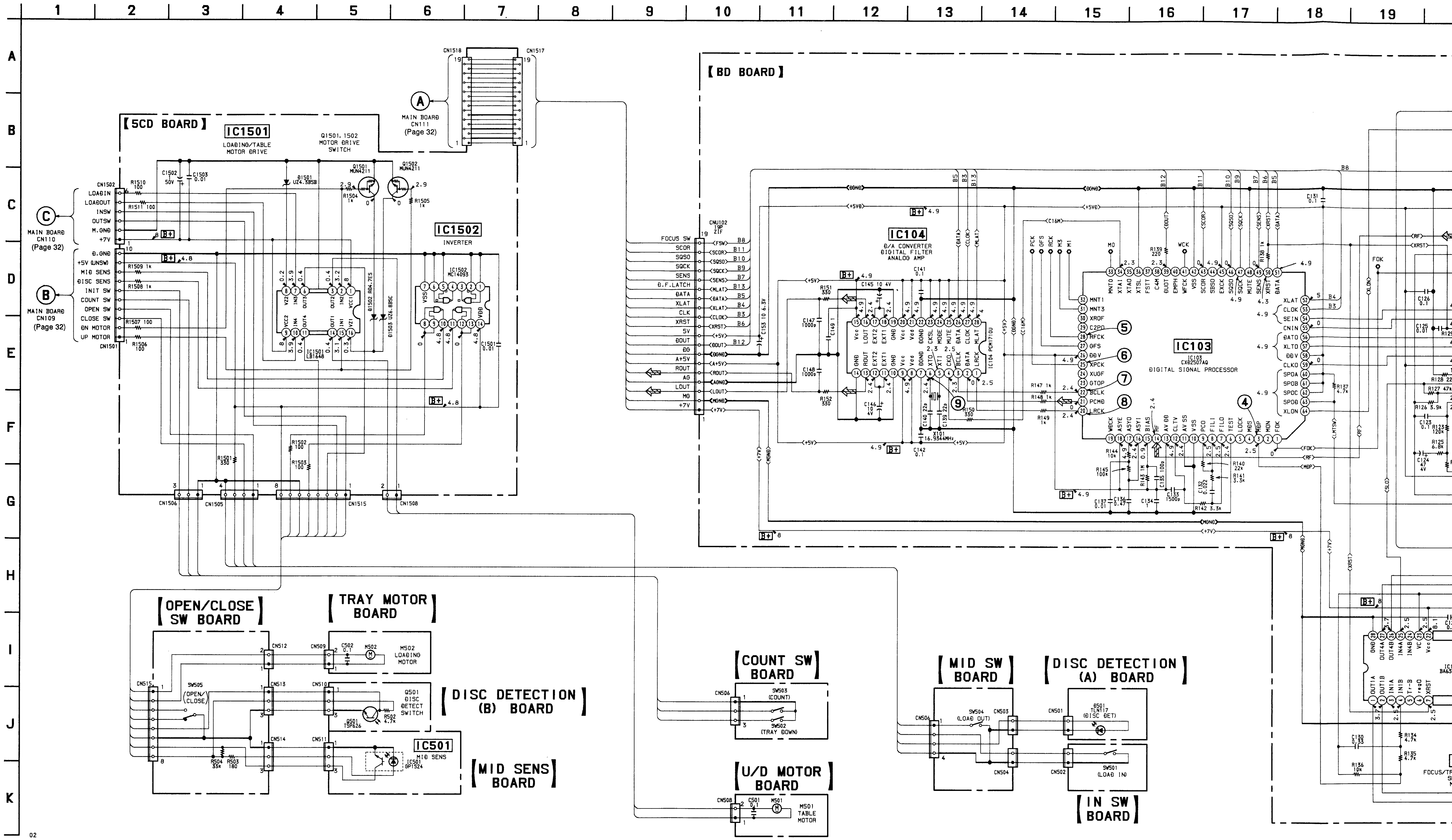






6-9. SCHEMATIC DIAGRAM – BD SECTION –

• Refer to page 39 for Waveforms. • Refer to page 53 for IC Block Diagrams.



• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D501	K - 6	IC1501	B - 6
D1501	B - 5	IC1502	B - 4
D1502	B - 6		
D1503	B - 6		
		Q101	E - 13
		Q102	E - 14
IC101	E - 15	Q103	G - 13
IC102	D - 15	Q1501	B - 6
IC103	F - 9	Q1502	B - 5
IC104	F - 8		
IC501	J - 3		

Note:

- ○— : parts extracted from the component side.
- ░░░ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

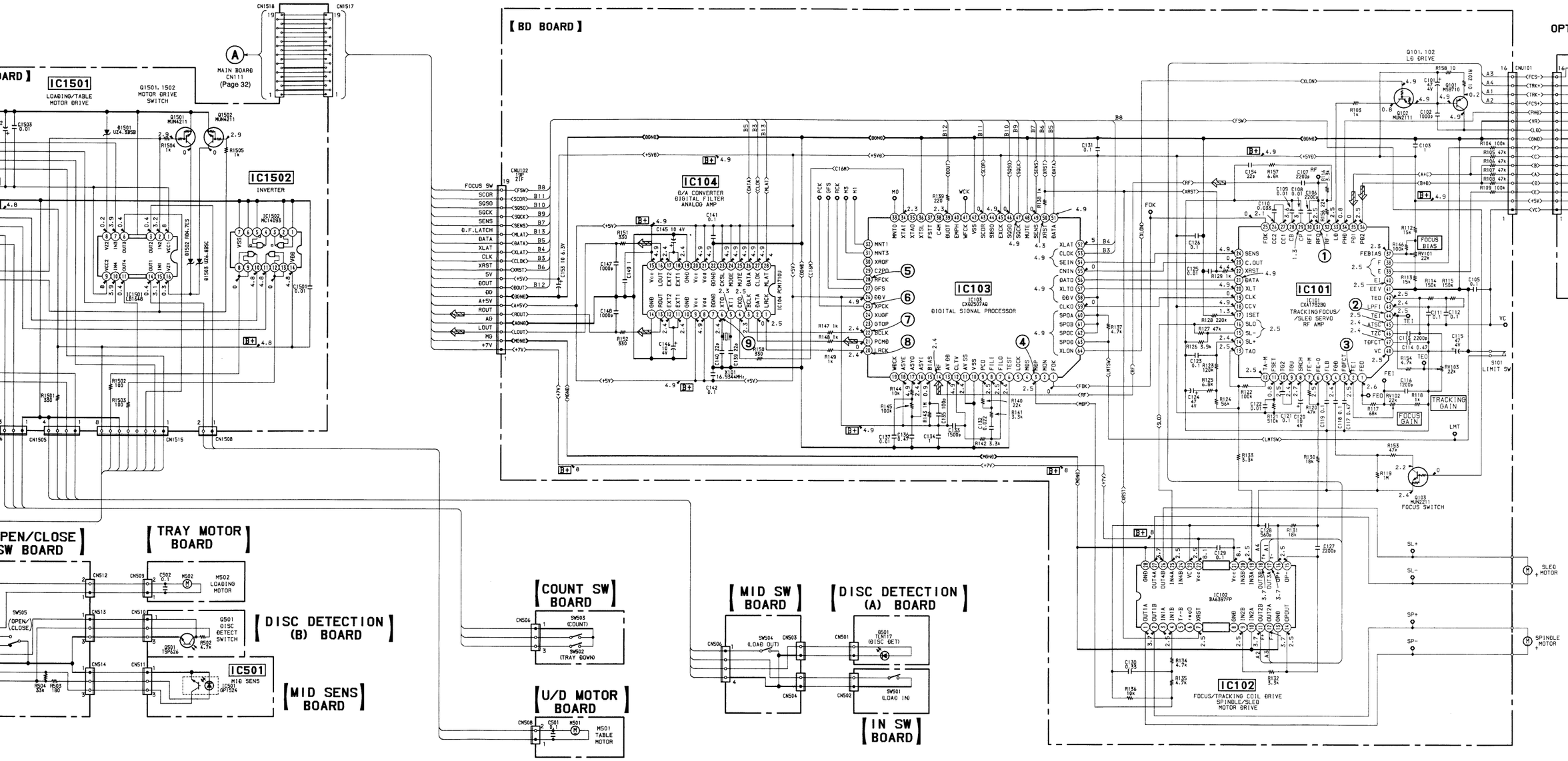
Caution :

Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ
  50WV or less are not indicated except for electrolytics
  tantalums.
- All resistors are in Ω and 1/10W or less unless otherw
  specified.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés p une marque ⚠ sont critiqu pour la sécurité. Ne les remplacer que par u pièce portant le numéro spé fié.



TION

No.	Location
01	B - 6
02	B - 4
	E - 13
2	E - 14
3	G - 13
01	B - 6
02	B - 5

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

Caution :

Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.

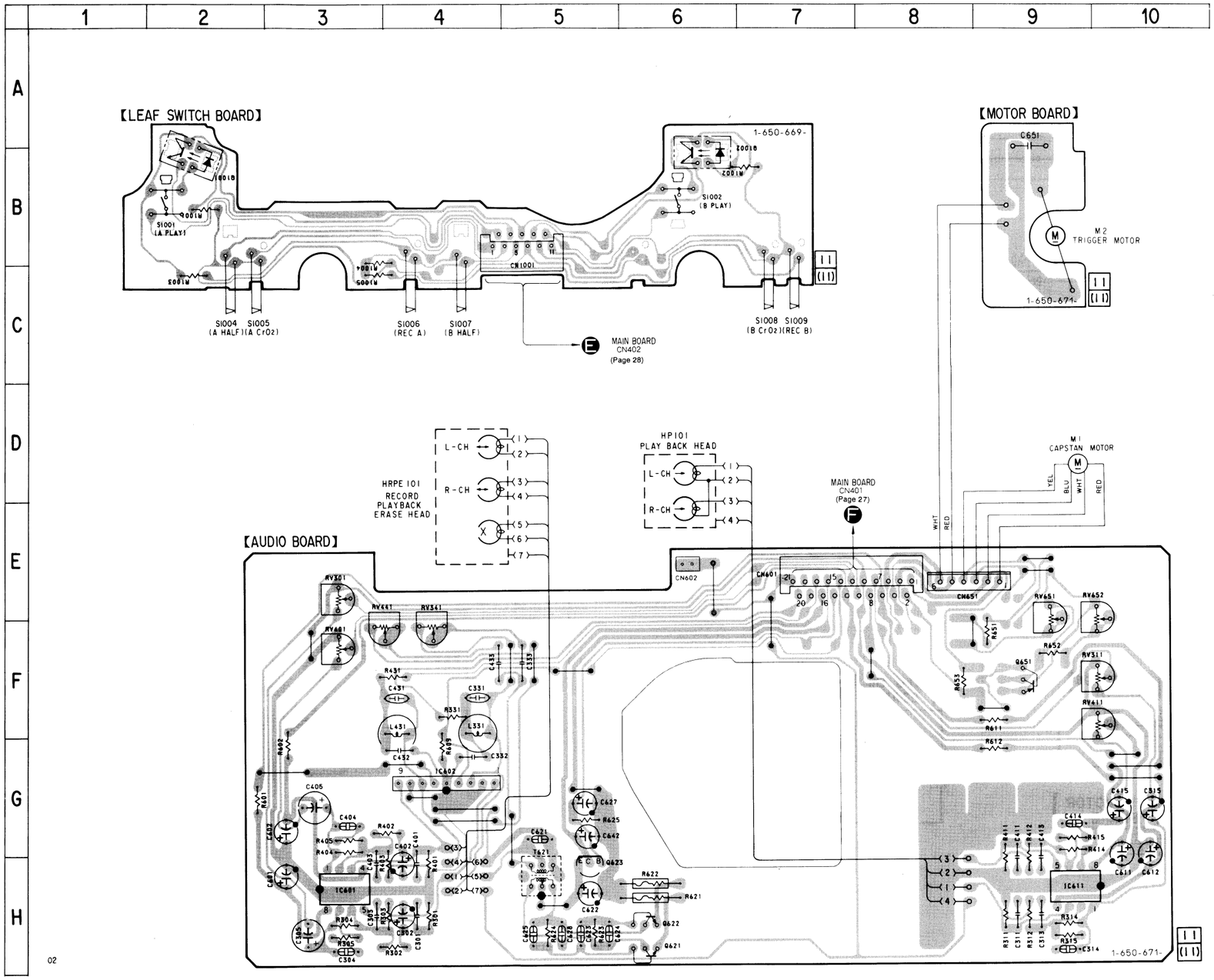
Note :	**Note :**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (CD) conditions.
  no mark : STOP (CD)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

6-10. PRINTED WIRING BOARDS – AUDIO SECTION –

- **SEMICONDUCTOR LOCATION**

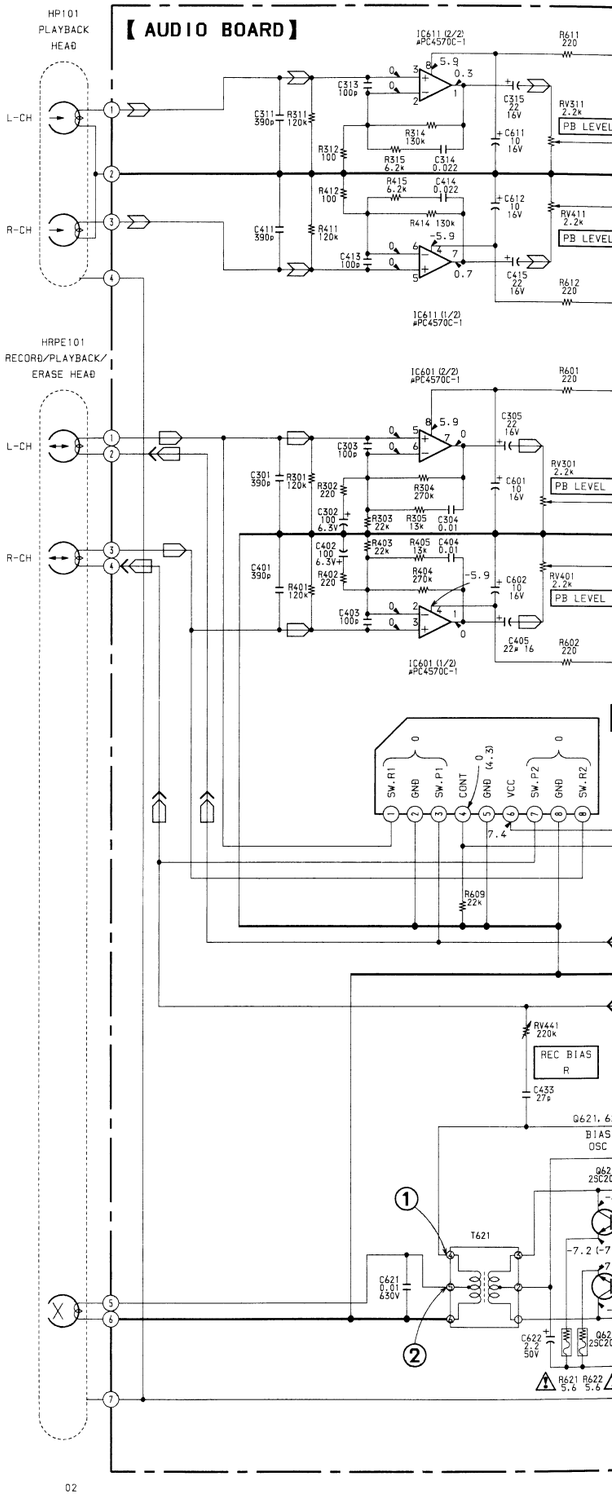
Ref. No.	Location
IC601	H - 3
IC602	G - 4
IC611	H - 9
Q621	H - 6
Q622	H - 6
Q623	H - 5
Q651	F - 9
Q1001	B - 2
Q1002	B - 6



Note:

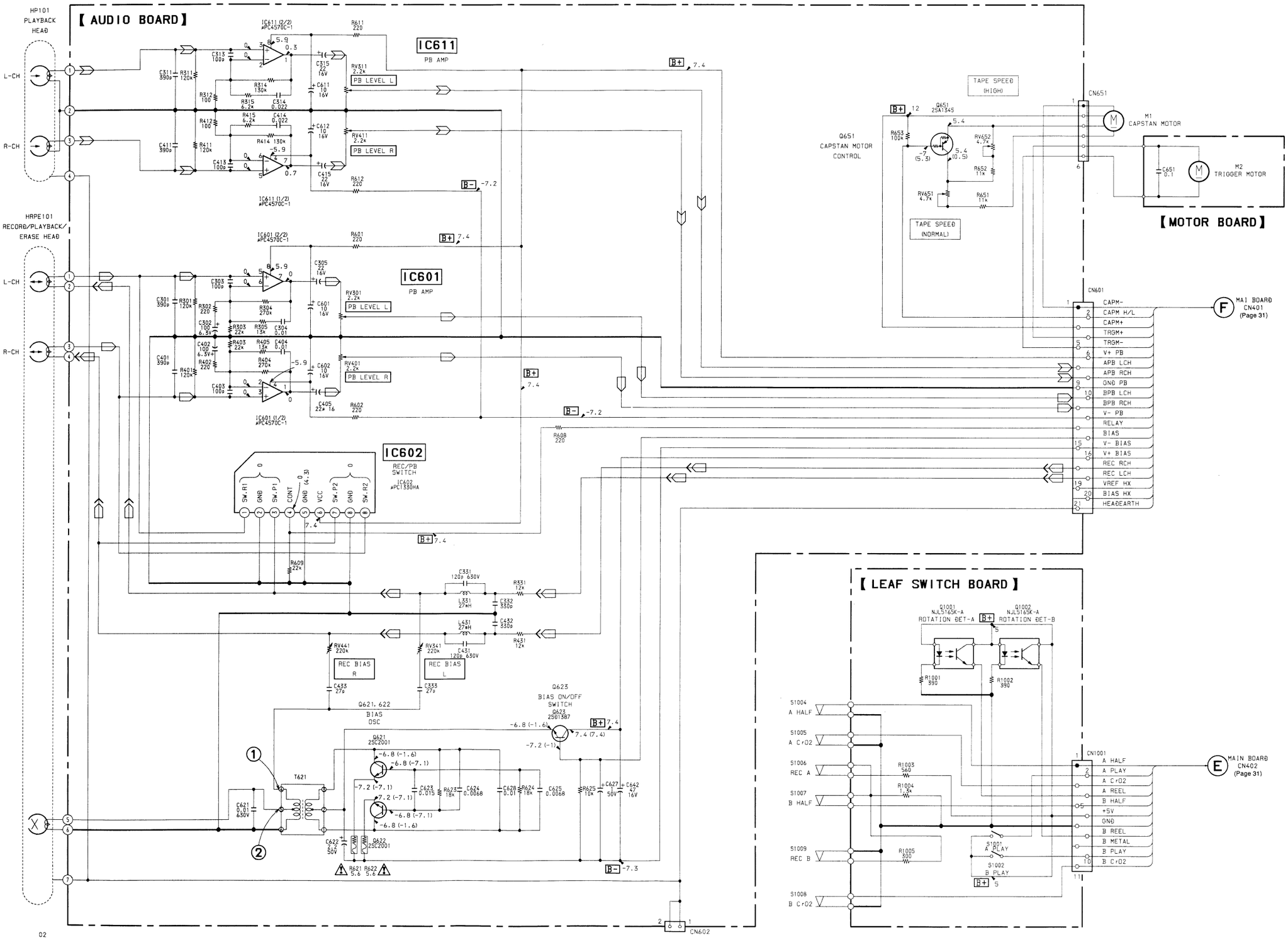
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

6-11. SCHEMATIC DIAGRAM – AUDIO SECTION –



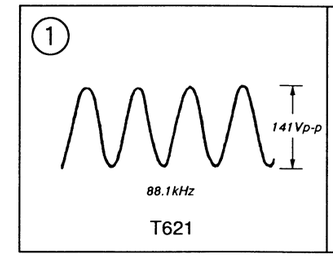
SCHEMATIC DIAGRAM – AUDIO SECTION –

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17



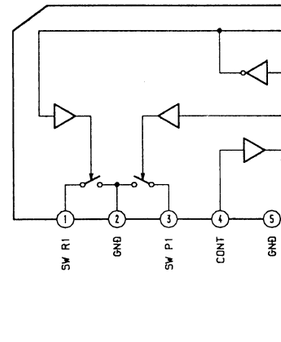
02

• WAVEFORM – AUDIO SECTION



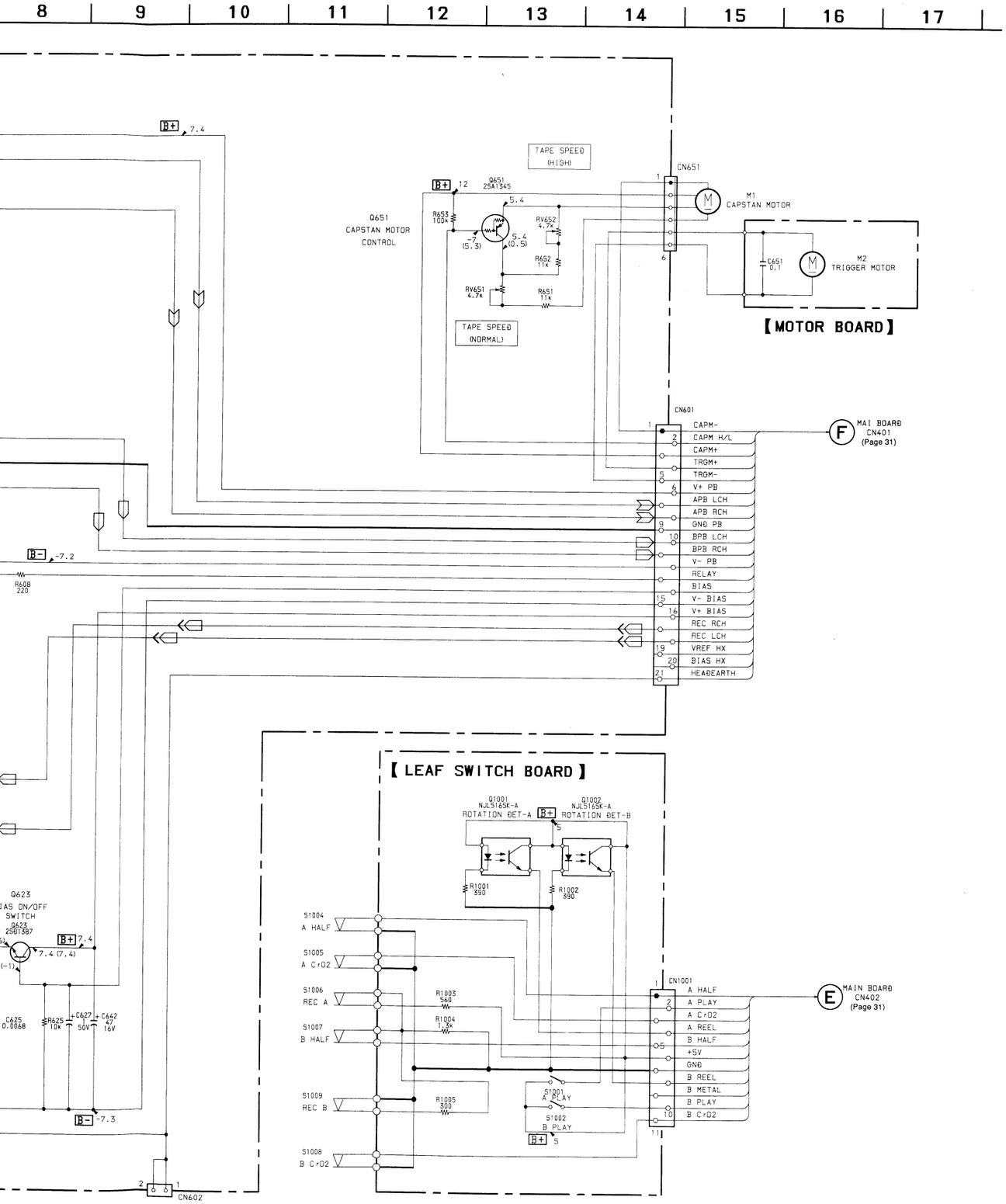
• IC BLOCK DIAGRAMS – AUD

IC602 μPC1330HA

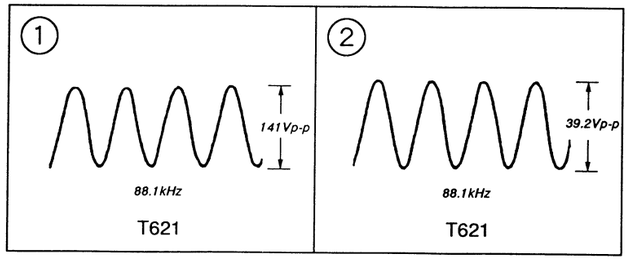


Note :

- All capacitors are in μ F unless otherwise noted 50WV or less are not indicated except for electro tantalums.
- All resistors are in Ω and ¼W or less unless oth specified.
- B+ : B+ Line
- B – : B – Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to gr no-signal conditions.
  no mark : PLAY (TC)
  ( ) : REC
- Voltages are taken with a VOM (Input impedanc Voltage variations may be noted due to normal p tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal p tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : PB (DECK A)
  : PB (DECK B)
  : REC (DECK B)

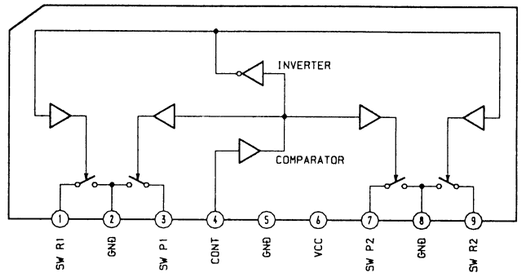


• WAVEFORM – AUDIO SECTION –



• IC BLOCK DIAGRAMS – AUDIO SECTION –

IC602 μPC1330HA



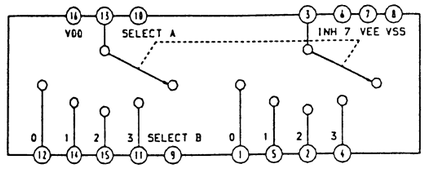
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- B – : B – Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY (TC)
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▷ : PB (DECK A)
  ▷ : PB (DECK B)
  ▷» : REC (DECK B)

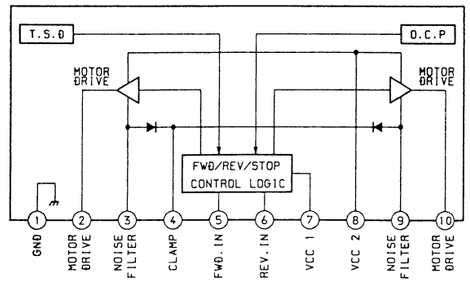
6-12. IC BLOCK DIAGRAMS

– MAIN SECTION –

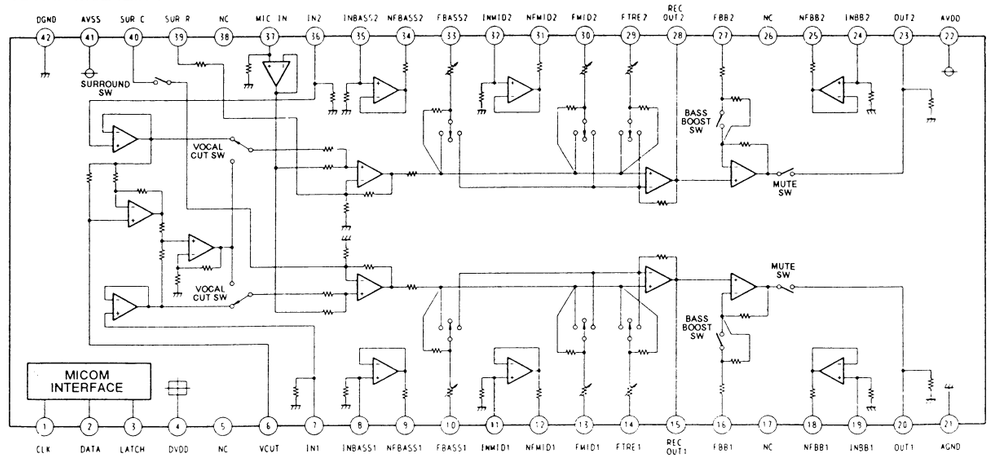
IC102 MC14052BCP



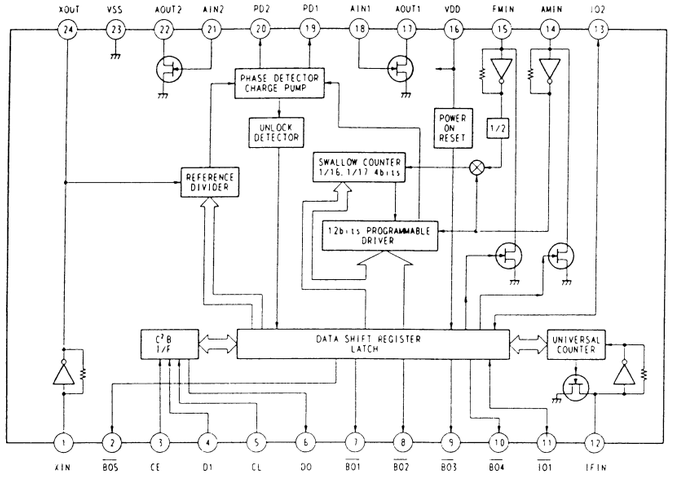
IC402 LB1641



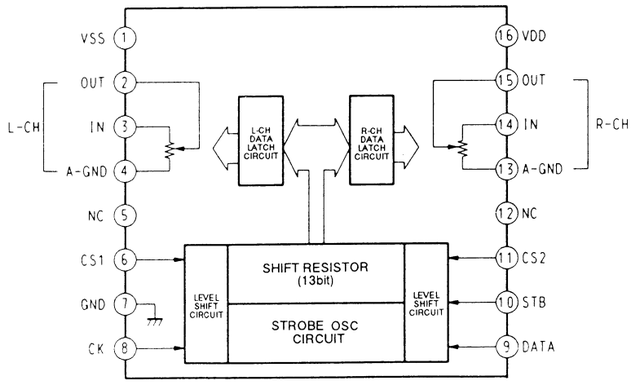
IC108 M62423FP



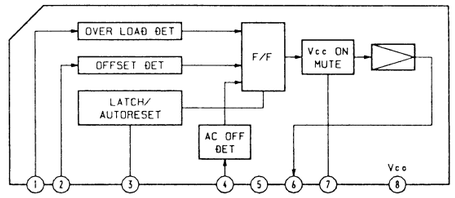
IC21 LC72130



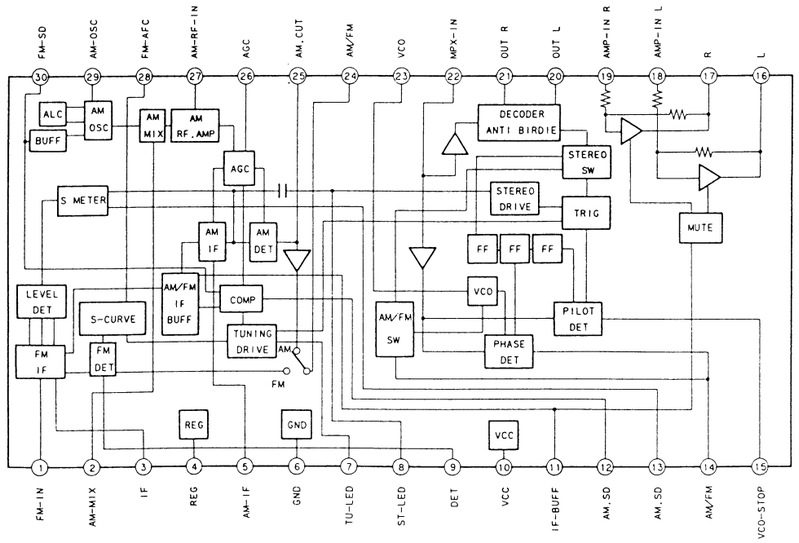
IC109 TC9210P



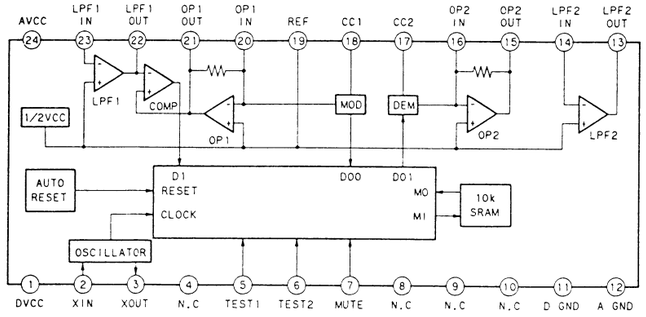
IC801 μPC1237HA



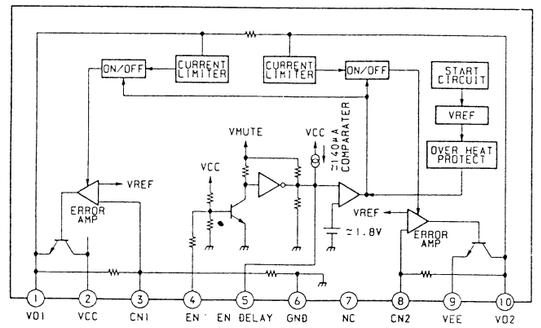
IC41 LA1835

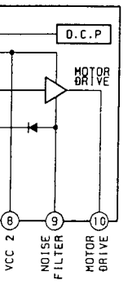


IC701 M65843FP

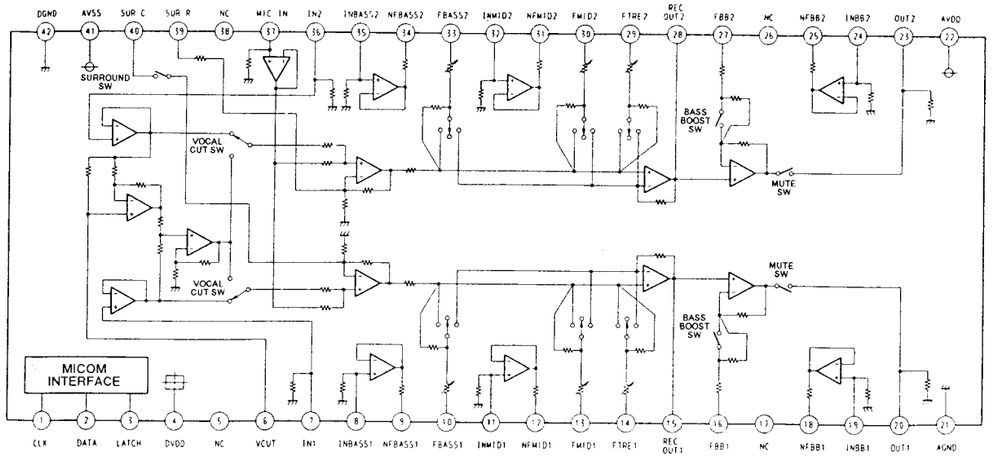


IC804 LA5617

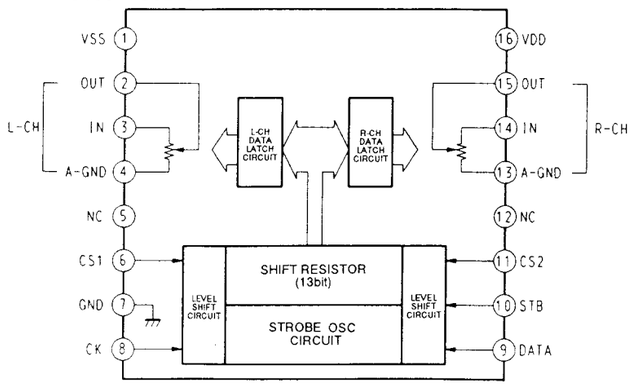




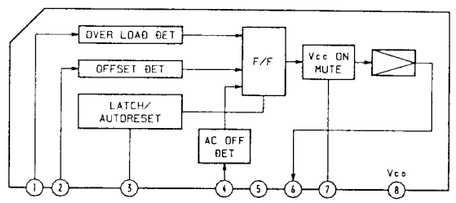
IC108 M62423FP



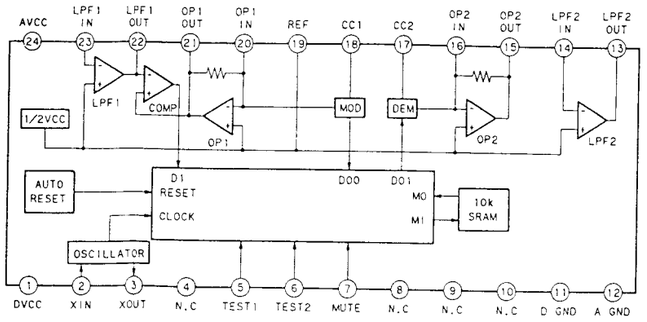
IC109 TC9210P



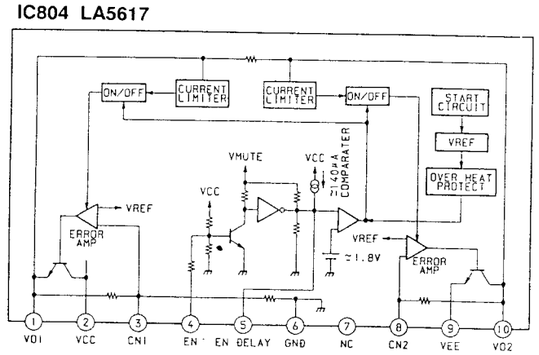
IC801 μPC1237HA



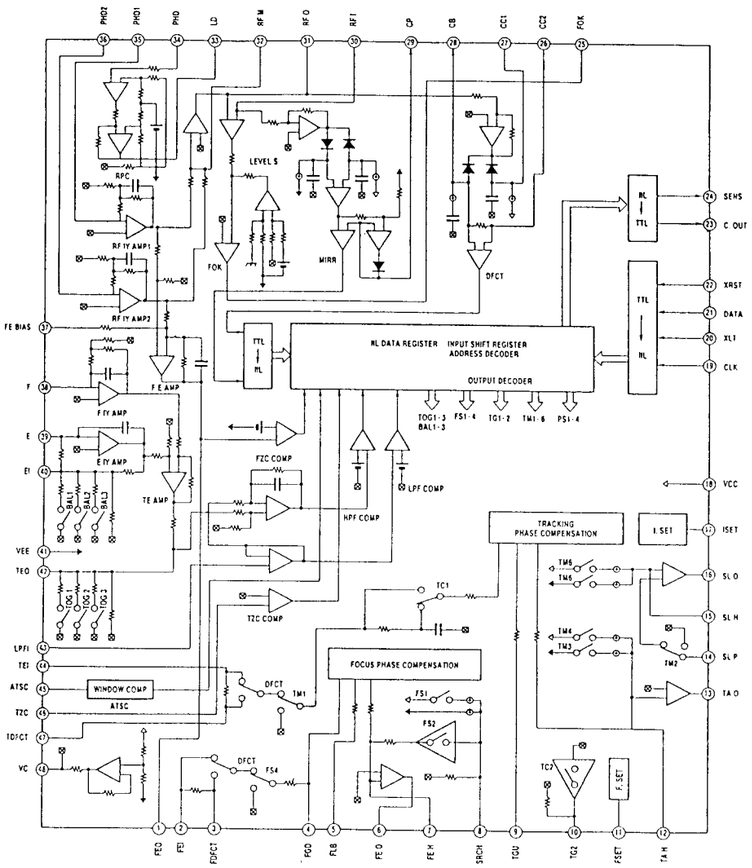
IC701 M65843FP



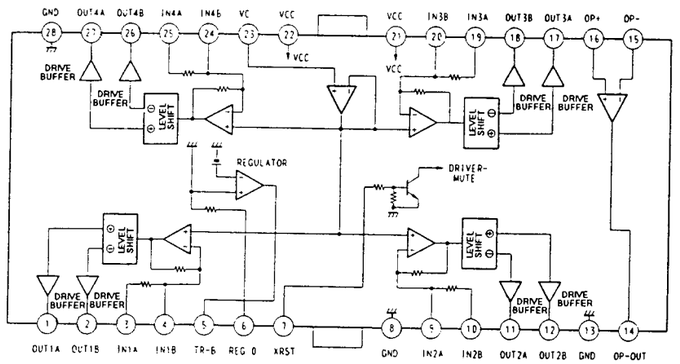
IC804 LA5617



IC101 CXA1782BQ



IC102 BA6397FP



SECTION 7
EXPLODED VIEWS

NOTE :

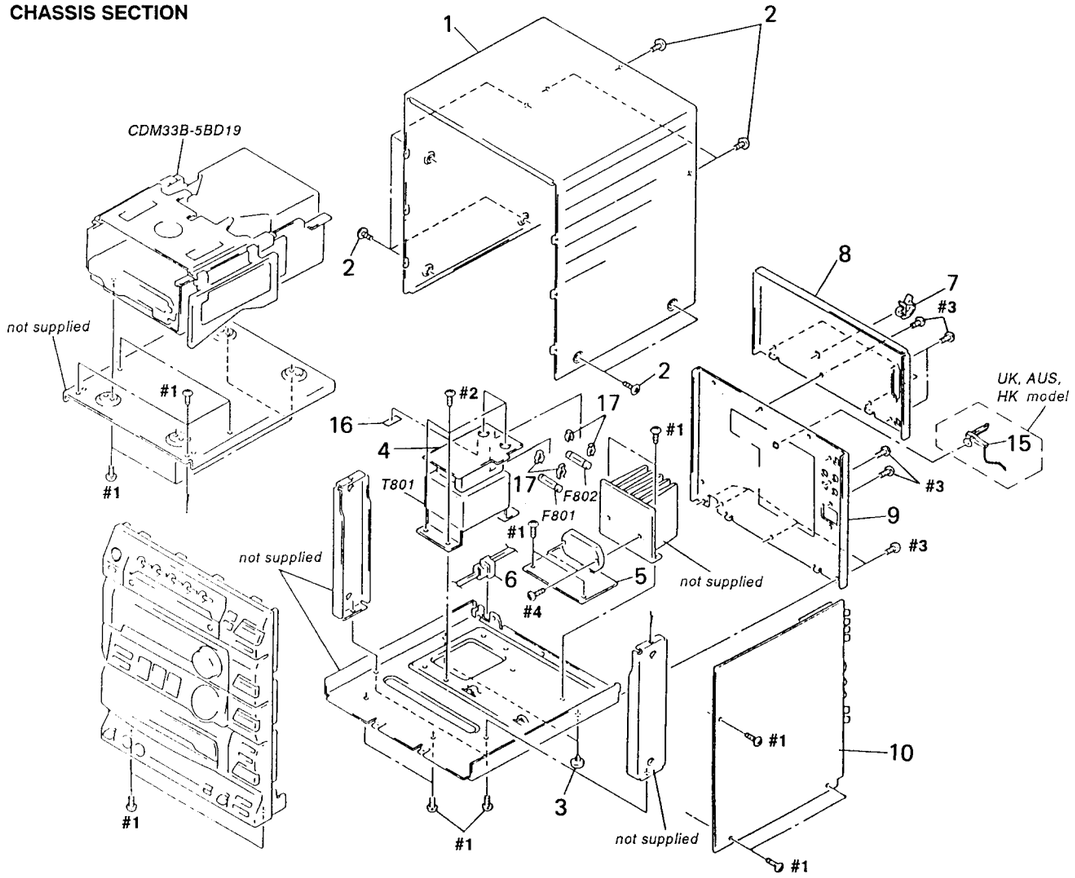
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

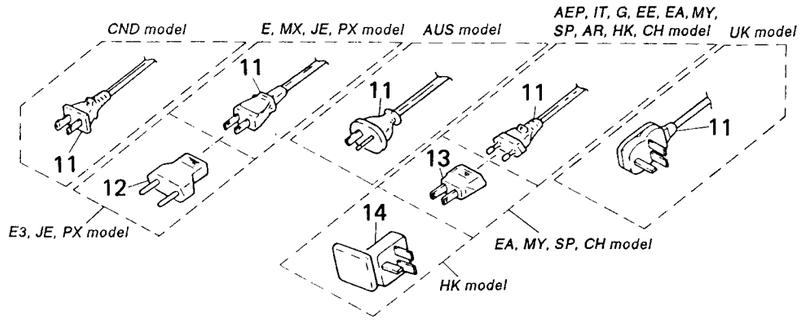
CND	: Canadian	G	: German
IT	: Italian	EE	: East European
AUS	: Australian	EA	: Saudi Arabia
AR	: Argentine	HK	: Hong Kong
MX	: Mexican	MY	: Malaysia
SP	: Singapore	JE	: Tourist
CH	: Chinese		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CHASSIS SECTION

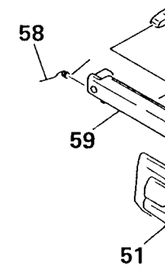




Ref. No.	Part No.	Description	Remark
1	4-970-846-21	CASE	
2	3-363-099-01	SCREW (CASE 3 TP2)	
3	4-965-822-01	FOOT	
* 4	1-654-906-11	TRANSFORMER BOARD	
* 5	A-4377-474-A	POWER BOARD, COMPLETE (CND)	
* 5	A-4377-483-A	POWER BOARD, COMPLETE (E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
* 5	A-4377-497-A	POWER BOARD, COMPLETE (AEP, UK, G, IT, EE)	
* 6	3-703-244-00	BUSHING (2104), CORD (CND, AEP, UK, G, IT, EA, EE, AR, AUS, HK, MY, SP, CH)	
* 6	3-703-571-11	BUSHING (S) (4516), CORD (E, JE, MX, PX)	
* 7	4-949-235-01	HOOK	
* 8	4-970-916-12	PANEL (UPPER), BACK (CND)	
* 8	4-970-916-22	PANEL (UPPER), BACK (AEP1)	
* 8	4-970-916-32	PANEL (UPPER), BACK (AEP2)	
* 8	4-970-916-42	PANEL (UPPER), BACK (G)	
* 8	4-970-916-52	PANEL (UPPER), BACK (UK)	
* 8	4-970-916-62	PANEL (UPPER), BACK (EE)	
* 8	4-970-916-72	PANEL (UPPER), BACK (E, EA, AR, HK, JE, SP, PX, CH)	
* 8	4-970-916-82	PANEL (UPPER), BACK (MY)	
* 8	4-970-916-92	PANEL (UPPER), BACK (MX)	
* 8	4-972-926-02	PANEL (UPPER), BACK (AUS)	
* 8	4-972-926-71	PANEL (UPPER), BACK (IT)	
* 9	4-970-917-12	PANEL (LOWER), BACK (CND, AEP, G, IT, EE, MX, MY)	
* 9	4-970-917-22	PANEL (LOWER), BACK (UK, AUS)	
* 9	4-970-917-32	PANEL (LOWER), BACK (E, EA, AR, HK, JE, SP, PX, CH)	
* 9	4-970-917-91	PANEL (LOWER), BACK (HK)	
* 10	A-4377-476-A	MAIN BOARD, COMPLETE (CND)	
* 10	A-4377-486-A	MAIN BOARD, COMPLETE (E2, AR, MX)	
* 10	A-4377-490-A	MAIN BOARD, COMPLETE (E3, HK, MY, SP, PX, CH)	
* 10	A-4377-491-A	MAIN BOARD, COMPLETE (EA)	
* 10	A-4377-493-A	MAIN BOARD, COMPLETE (AUS)	
* 10	A-4377-499-A	MAIN BOARD, COMPLETE (AEP1)	
* 10	A-4377-501-A	MAIN BOARD, COMPLETE (AEP2)	
* 10	A-4377-502-A	MAIN BOARD, COMPLETE (G)	
* 10	A-4377-503-A	MAIN BOARD, COMPLETE (IT)	
* 10	A-4377-504-A	MAIN BOARD, COMPLETE (UK)	
* 10	A-4377-505-A	MAIN BOARD, COMPLETE (EE)	
* 10	A-4378-633-A	MAIN BOARD, COMPLETE (JE)	
⚠11	1-558-943-41	CORD, POWER (E, JE, MX, PX)	
⚠11	1-575-651-21	CORD, POWER (AEP, G, IT, EA, EE, AR, HK, MY, SP, CH)	
⚠11	1-590-926-11	CORD, POWER (CND)	
⚠11	1-696-571-11	CORD, POWER (UK)	
⚠11	1-696-847-11	CORD, POWER (AUS)	
⚠12	1-569-007-11	ADAPTER, CONVERSION 2P (E3, JE, PX)	
⚠13	1-569-008-11	ADAPTER, CONVERSION 2P (EA, MY, SP, CH)	
⚠14	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
15	4-956-370-02	BAND, PLUG FIXED (UK, AUS, HK)	
* 16	3-701-946-24	LABEL, FUSE RATING (CND, MX)	
17	1-533-293-11	FUSE HOLDER	
⚠F801	1-532-259-00	FUSE (T2.5AL, 250V) (E, EA, AR, HK, JE, SP, PX, CH)	
⚠F801	1-532-744-11	FUSE, GLASS CYLINDRICAL(DIA.5) (2.5A, 125V) (CND, MX)	
⚠F802	1-532-078-00	FUSE (T1AL, 250V) (AEP, UK, G, IT, EE)	
⚠F802	1-532-215-00	FUSE (T0.8AL, 250V) (E, EA, AR, AUS, HK, JE, MY, SP, PX, CH)	
⚠T801	1-427-793-11	TRANSFORMER, POWER (E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
⚠T801	1-427-794-11	TRANSFORMER, POWER (AEP, UK, G, IT, EE)	
⚠T801	1-427-858-11	TRANSFORMER, POWER (CND)	

7-2. FRONT PAN

- ● A : PANEL B
- ● B : PANEL B



Ref. No.	Part No.
51	X-4945-42
52	X-4945-42
53	4-970-844
54	4-970-849
55	4-970-847
56	4-970-848
57	X-4945-76
57	X-4945-76
57	X-4945-76
58	4-970-902
59	4-970-901
60	4-930-336

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h part number

dentifiés par une
critiques pour la

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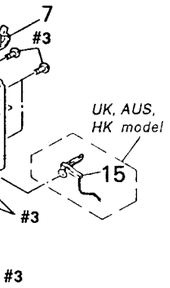
méro spécifié.

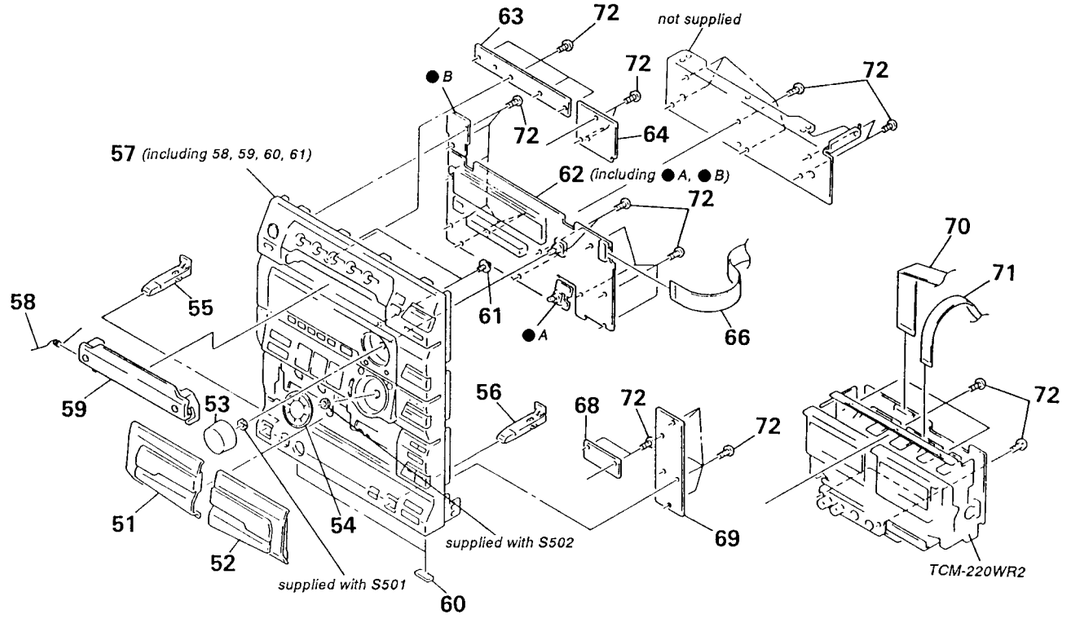


Ref. No.	Part No.	Description	Remark
1	4-970-846-21	CASE	
2	3-363-099-01	SCREW (CASE 3 TP2)	
3	4-965-822-01	FOOT	
* 4	1-654-906-11	TRANSFORMER BOARD	
* 5	A-4377-474-A	POWER BOARD, COMPLETE (CND)	
* 5	A-4377-483-A	POWER BOARD, COMPLETE (E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
* 5	A-4377-497-A	POWER BOARD, COMPLETE (AEP, UK, G, IT, EE)	
* 6	3-703-244-00	BUSHING (2104), CORD (CND, AEP, UK, G, IT, EA, EE, AR, AUS, HK, MY, SP, CH)	
* 6	3-703-571-11	BUSHING (S) (4516), CORD (E, JE, MX, PX)	
* 7	4-949-235-01	HOOK	
* 8	4-970-916-12	PANEL (UPPER), BACK (CND)	
* 8	4-970-916-22	PANEL (UPPER), BACK (AEP1)	
* 8	4-970-916-32	PANEL (UPPER), BACK (AEP2)	
* 8	4-970-916-42	PANEL (UPPER), BACK (G)	
* 8	4-970-916-52	PANEL (UPPER), BACK (UK)	
* 8	4-970-916-62	PANEL (UPPER), BACK (EE)	
* 8	4-970-916-72	PANEL (UPPER), BACK (E, EA, AR, HK, JE, SP, PX, CH)	
* 8	4-970-916-82	PANEL (UPPER), BACK (MY)	
* 8	4-970-916-92	PANEL (UPPER), BACK (MX)	
* 8	4-972-926-02	PANEL (UPPER), BACK (AUS)	
* 8	4-972-926-71	PANEL (UPPER), BACK (IT)	
* 9	4-970-917-12	PANEL (LOWER), BACK (CND, AEP, G, IT, EE, MX, MY)	
* 9	4-970-917-22	PANEL (LOWER), BACK (UK, AUS)	
* 9	4-970-917-32	PANEL (LOWER), BACK (E, EA, AR, HK, JE, SP, PX, CH)	
* 9	4-970-917-91	PANEL (LOWER), BACK (HK)	
* 10	A-4377-476-A	MAIN BOARD, COMPLETE (CND)	
* 10	A-4377-486-A	MAIN BOARD, COMPLETE (E2, AR, MX)	
* 10	A-4377-490-A	MAIN BOARD, COMPLETE (E3, HK, MY, SP, PX, CH)	
* 10	A-4377-491-A	MAIN BOARD, COMPLETE (EA)	
* 10	A-4377-493-A	MAIN BOARD, COMPLETE (AUS)	
* 10	A-4377-499-A	MAIN BOARD, COMPLETE (AEP1)	
* 10	A-4377-501-A	MAIN BOARD, COMPLETE (AEP2)	
* 10	A-4377-502-A	MAIN BOARD, COMPLETE (G)	
* 10	A-4377-503-A	MAIN BOARD, COMPLETE (IT)	
* 10	A-4377-504-A	MAIN BOARD, COMPLETE (UK)	
* 10	A-4377-505-A	MAIN BOARD, COMPLETE (EE)	
* 10	A-4378-633-A	MAIN BOARD, COMPLETE (JE)	
⚠11	1-558-943-41	CORD, POWER (E, JE, MX, PX)	
⚠11	1-575-651-21	CORD, POWER (AEP, G, IT, EA, EE, AR, HK, MY, SP, CH)	
⚠11	1-590-926-11	CORD, POWER (CND)	
⚠11	1-696-571-11	CORD, POWER (UK)	
⚠11	1-696-847-11	CORD, POWER (AUS)	
⚠12	1-569-007-11	ADAPTER, CONVERSION 2P (E3, JE, PX)	
⚠13	1-569-008-11	ADAPTER, CONVERSION 2P (EA, MY, SP, CH)	
⚠14	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
15	4-956-370-02	BAND, PLUG FIXED (UK, AUS, HK)	
* 16	3-701-946-24	LABEL, FUSE RATING (CND, MX)	
17	1-533-293-11	FUSE HOLDER	
⚠F801	1-532-259-00	FUSE (T2.5AL, 250V) (E, EA, AR, HK, JE, SP, PX, CH)	
⚠F801	1-532-744-11	FUSE, GLASS CYLINDRICAL (DIA.5) (2.5A, 125V) (CND, MX)	
⚠F802	1-532-078-00	FUSE (T1AL, 250V) (AEP, UK, G, IT, EE)	
⚠F802	1-532-215-00	FUSE (T0.8AL, 250V) (E, EA, AR, AUS, HK, JE, MY, SP, PX, CH)	
⚠T801	1-427-793-11	TRANSFORMER, POWER (E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
⚠T801	1-427-794-11	TRANSFORMER, POWER (AEP, UK, G, IT, EE)	
⚠T801	1-427-858-11	TRANSFORMER, POWER (CND)	

7-2. FRONT PANEL SECTION

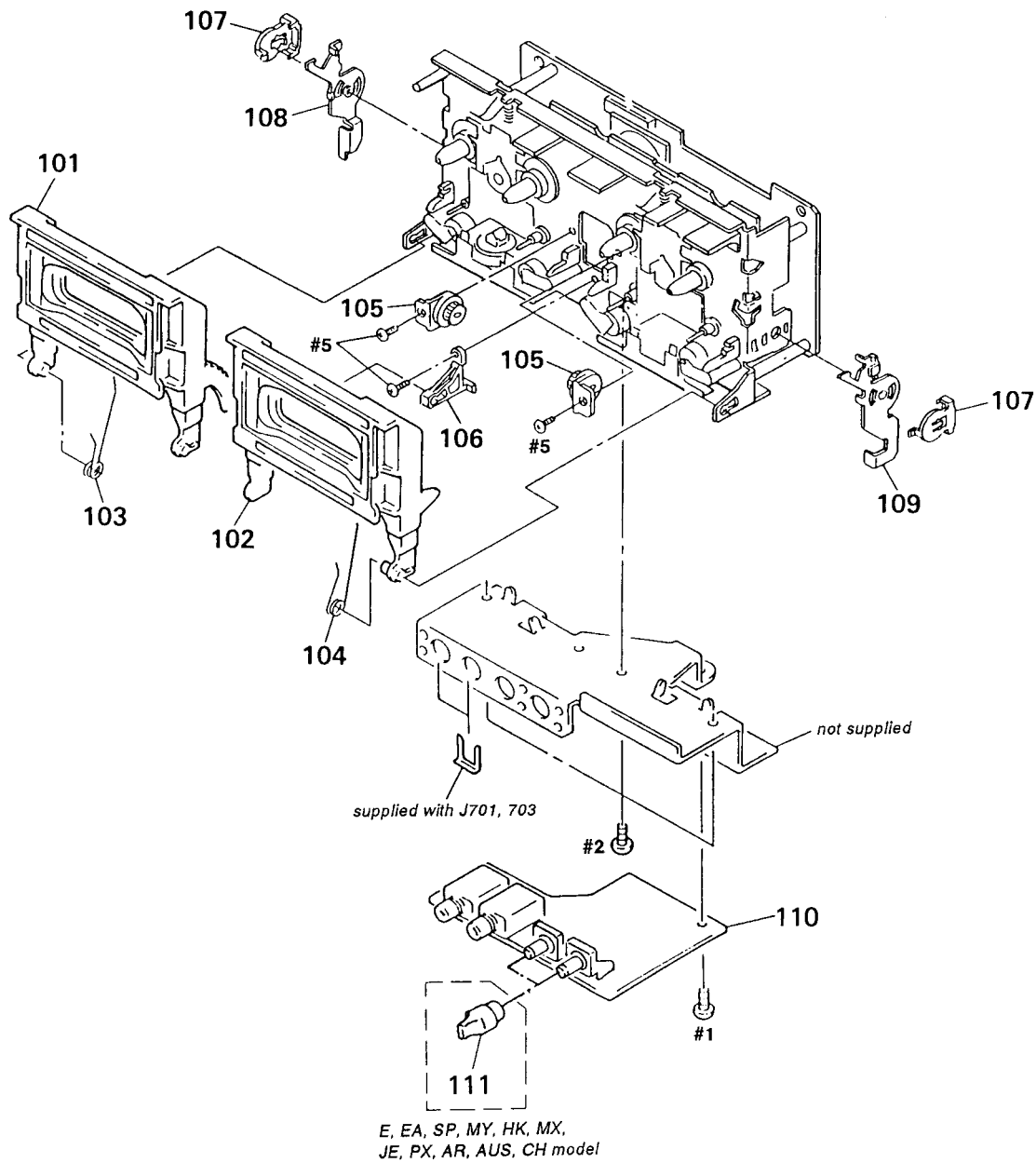
● *A : PANEL BOARD (2/3)*

● *B : PANEL BOARD (3/3)*



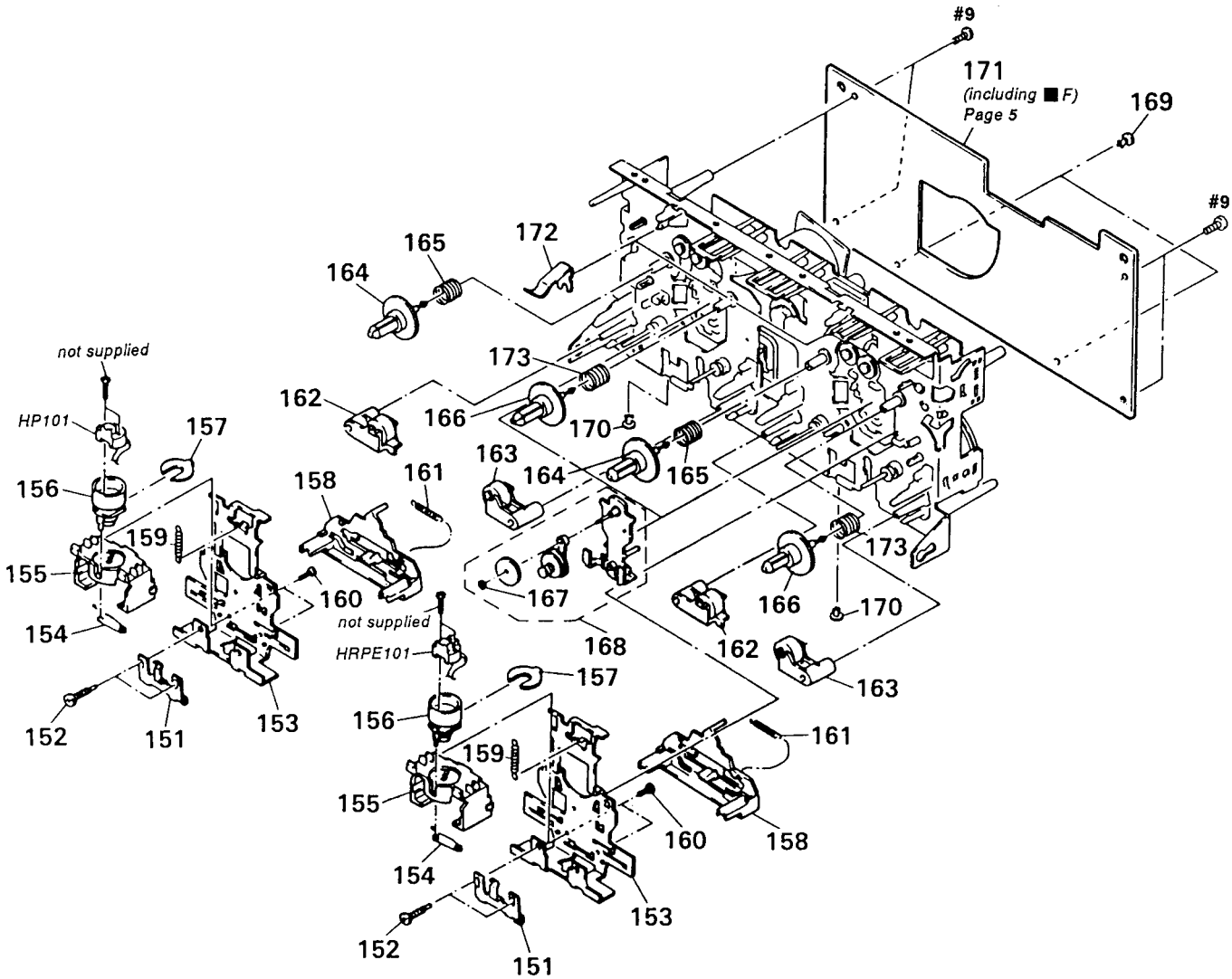
Ref. No.	Part No.	Description	Remark
51	X-4945-421-1	LID (A) ASSY, CASSETTE	
52	X-4945-422-1	LID (B) ASSY, CASSETTE	
53	4-970-844-01	KNOB (VOL)	
54	4-970-849-01	KNOB (JOG)	
55	4-970-847-01	BUTTON (EJ-A)	
56	4-970-848-01	BUTTON (EJ-B)	
57	X-4945-760-1	PANEL ASSY, FRONT (CND, AEP, UK, G, IT, EE)	
57	X-4945-761-1	PANEL ASSY, FRONT (E2, AR, MX)	
57	X-4945-762-1	PANEL ASSY, FRONT (E3, EA, AUS, HK, JE, MY, SP, PX, CH)	
58	4-970-902-01	SPRING (LID)	
59	4-970-901-11	LID (LOADING)	
60	4-930-336-61	FOOT (FELT)	
61	4-933-134-01	SCREW (+PTPWH M2.6×6)	
* 62	A-4377-496-A	PANEL BOARD, COMPLETE	
* 63	1-654-908-11	CD SW BOARD	
* 64	1-654-907-11	SUB PANEL BOARD	
66	1-696-060-11	WIRE, PARALLEL (FFC) (17 CORE)	
* 68	1-654-905-11	KARAOKE SW BOARD	
* 69	1-654-904-11	TC SW BOARD	
70	1-751-713-11	WIRE (FLAT TYPE) (21 CORE)	
71	1-769-404-11	WIRE (FLAT TYPE) (11 CORE)	
72	4-951-620-01	SCREW (2.6×8), +BVTP	
73	3-362-478-11	HOLDER (T), LED	
74	4-970-443-01	HOUSE, LED	

7-3. TC MECHANISM SECTION-1 (TCM-220WR2)



Ref. No.	Part No.	Description	Remark
101	X-4943-776-1	HOLDER (L) ASSY, CASSETTE	
102	X-4943-775-1	HOLDER (R) ASSY, CASSETTE	
103	4-959-231-01	SPRING (L), TORSION	
104	4-959-232-01	SPRING (R), TORSION	
105	3-354-963-01	DAMPER	
* 106	3-908-611-01	FULCRUM, HOLDER	
107	3-354-957-01	JOINT (LOCK LEVER)	
* 108	3-367-709-01	LEVER (LOCK LEVER L)	
109	4-965-877-01	LEVER (LOCK LEVER R)	
* 110	1-654-903-11	HP BOARD (CND, AEP, UK, G, IT, EE)	
* 110	A-4377-484-A	HP BOARD, COMPLETE	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
111	4-970-883-01	KNOB (MIC)	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)

7-4. TC MECHANISM SECTION-2 (TCM-220WR2)

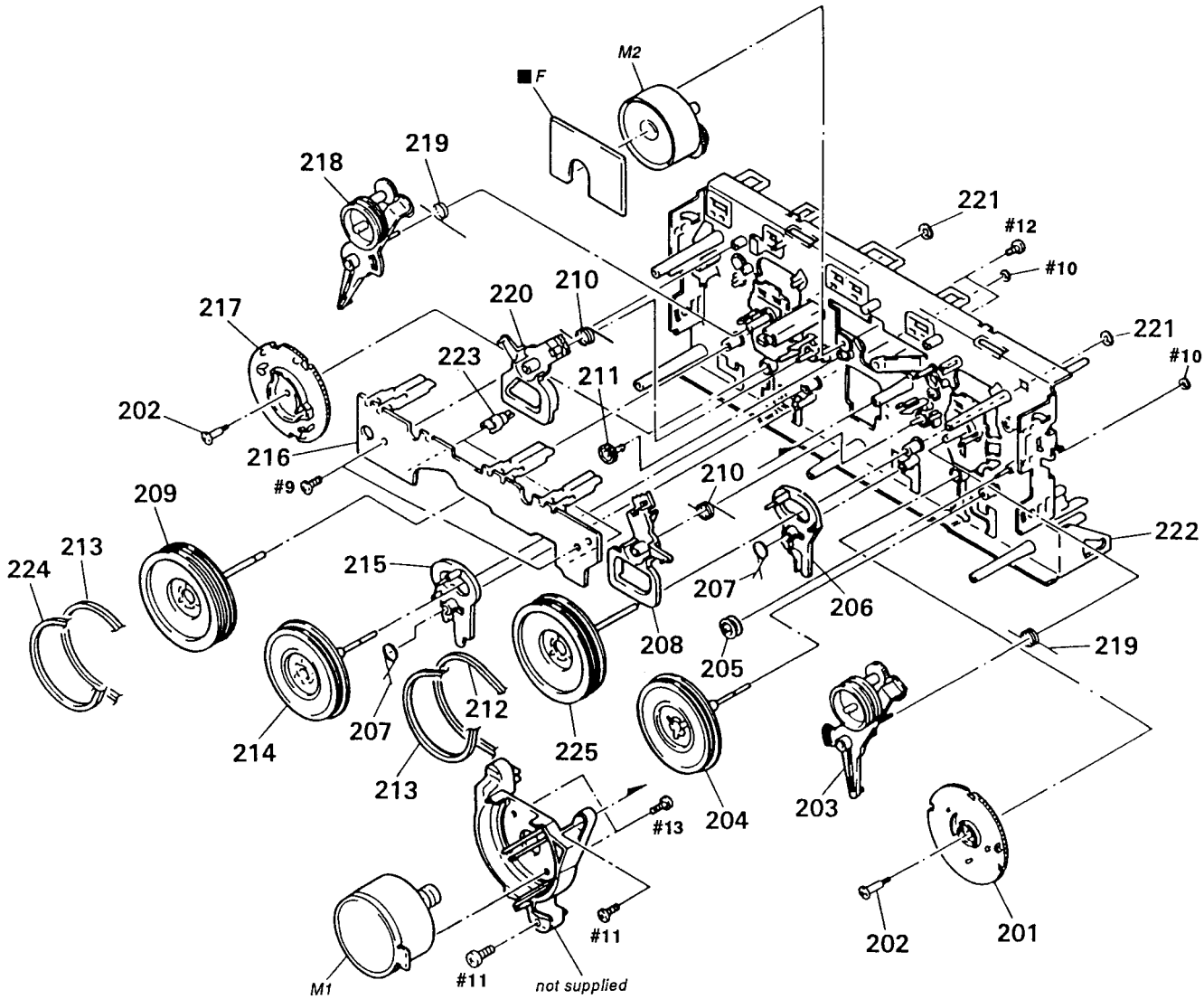


Ref. No.	Part No.	Description	Remark
151	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
152	3-908-561-01	SCREW (AZMUTH ADJUSTMENT)	
* 153	X-3367-584-2	SLIDER (HEAD) ASSY	
154	3-908-556-01	SPRING, HEAD TOGGLE	
155	3-908-558-02	FITTING BLOCK, HEAD	
156	3-908-557-02	ROTARY BLOCK, HEAD	
* 157	3-908-559-01	STOPPER, AZIMUTH	
158	3-908-555-01	SLIDER (REV SLIDER)	
159	3-917-143-01	SPRING, TENSION	
160	3-388-848-01	SCREW (P2×6) (B TIGHT)	
161	3-911-113-01	SPRING, TENSION	
162	X-3370-643-1	PINCH LEVER (REV) ASSY	
163	X-3367-588-1	PINCH LEVER (FWD) ASSY	

Ref. No.	Part No.	Description	Remark
164	3-908-613-01	GEAR (S), REEL	
165	3-917-141-01	SPRING, COMPRESSION	
166	X-3367-594-1	REEL (T) ASSY	
167	3-669-465-01	WASHER (1.5), STOPPER	
168	X-3369-315-1	TU ASSY	
169	3-911-116-21	RIVET, PUSH	
170	3-911-116-31	RIVET, PUSH	
* 171	A-2007-131-A	AUDIO BOARD, COMPLETE	
172	3-915-490-01	DETENT, HALF	
173	3-917-142-01	SPRING, COMPRESSION	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	

7-5. TC MECHANISM SECTION-3 (TCM-220WR2)

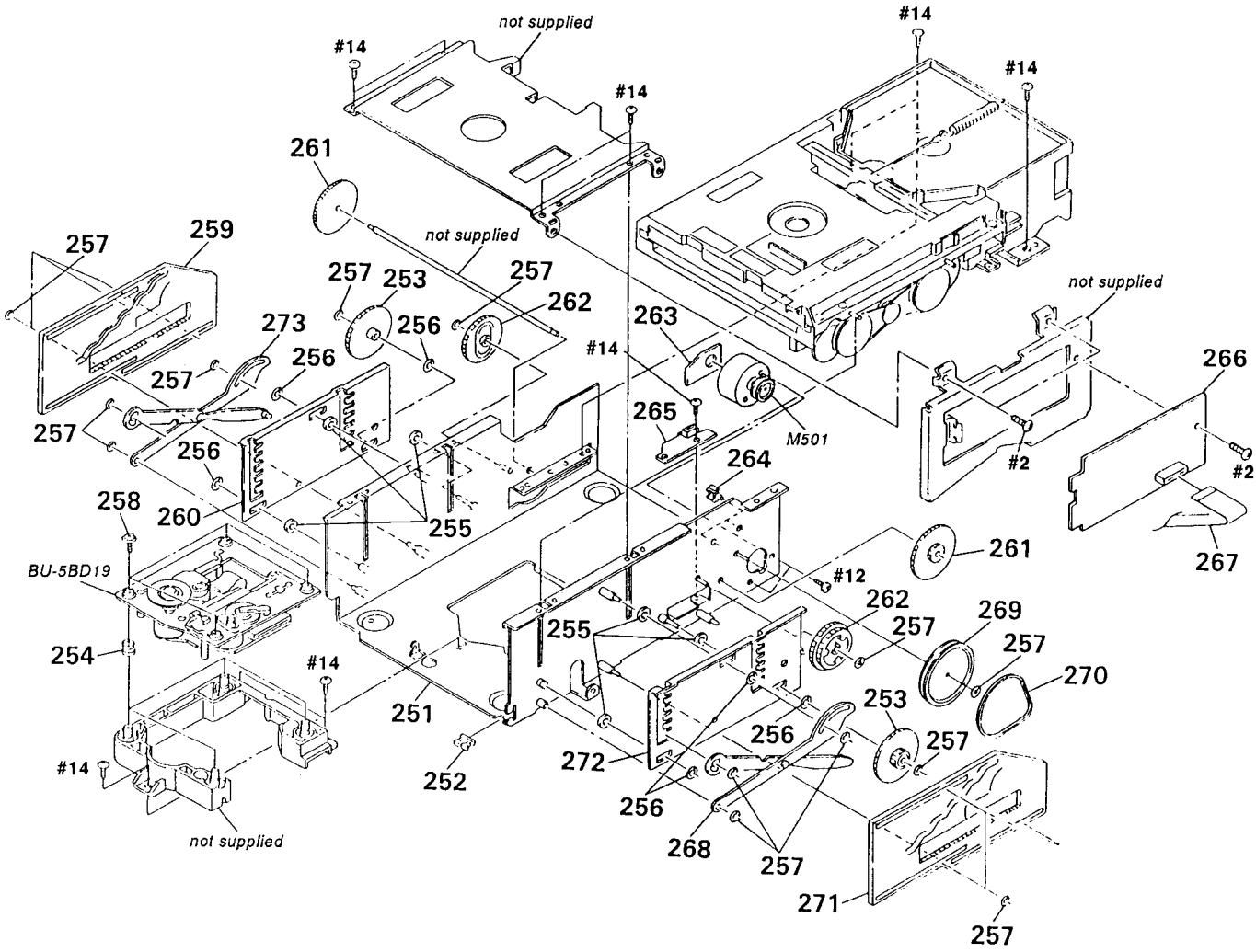
■ *F : MOTOR BOARD*



Ref. No.	Part No.	Description	Remark
201	3-908-597-01	CAM (A)	
202	3-908-608-01	SCREW, STEP	
203	X-3367-590-2	ARM (A) ASSY, FR	
204	X-3367-586-1	FLYWHEEL (AR) ASSY	
205	3-908-610-01	PULLEY, TENSION	
206	3-908-599-01	LEVER (REV-A)	
207	3-908-601-01	SPRING (REV LEVER), TORSION	
208	3-908-603-01	LEVER (TRIGGER A)	
209	X-3367-593-1	FLYWHEEL (BF) ASSY	
210	3-908-605-01	SPRING (TRIGGER), TORSION	
211	3-908-609-01	GEAR, TRIGGER	
212	3-913-845-01	BELT (A)	
213	3-913-846-01	BELT (FR)	
214	X-3367-595-1	FLYWHEEL (BR) ASSY	

Ref. No.	Part No.	Description	Remark
215	3-908-600-01	LEVER (REV-B)	
* 216	1-650-669-11	LEAF SWITCH BOARD	
217	3-908-598-01	CAM (B)	
218	X-3367-591-2	ARM (B) ASSY, FR	
219	3-911-114-01	SPRING (FR), TORSION	
220	3-908-604-01	LEVER (TRIGGER B)	
221	3-911-115-01	WASHER, STOPPER	
222	X-3367-587-1	CHASSIS ASSY, MECHANICAL	
* 223	3-381-776-01	HOLDER (LED)	
224	3-917-176-01	BELT (B)	
225	X-3368-837-1	FLYWHEEL (AF) ASSY	
M1	X-3369-110-1	MOTOR ASSY (CAPSTAN)	
M2	X-3369-111-1	MOTOR ASSY (TRIGGER)	

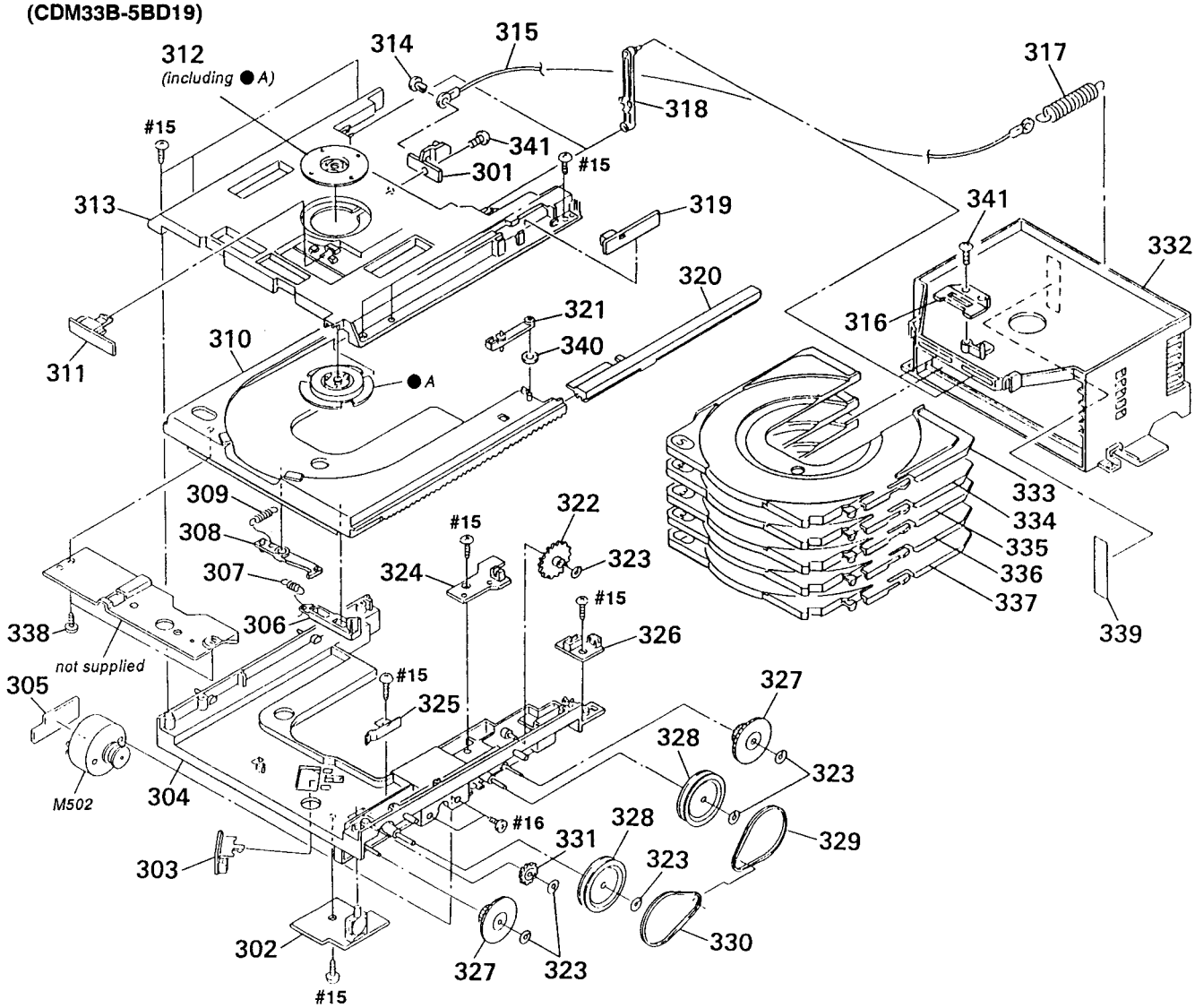
7-6. CD MECHANISM SECTION-1 (CDM33B-5BD19)



Ref. No.	Part No.	Description	Remark
* 251	X-4945-715-1	CHASSIS (B) ASSY, SUB	
252	3-383-699-01	CLAMP (EDGE)	
253	4-972-079-02	GEAR (U/D)	
254	4-948-503-01	SPRING (BU), COMPRESSION	
255	4-965-882-01	SPACER	
256	4-967-102-01	WASHER, STOPPER	
257	4-957-798-01	WASHER, STOPPER	
258	4-933-134-01	SCREW (+PTPWH M2.6×6)	
259	4-972-078-01	CAM (L), GROOVE	
* 260	X-4945-717-2	SLIDER ASSY	
261	4-964-466-03	GEAR (JOINT)	
262	4-972-076-02	GEAR (CAM B)	

Ref. No.	Part No.	Description	Remark
263	1-651-396-11	U/D MOTOR BOARD	
264	4-962-113-01	CLAMP	
265	1-651-397-11	COUNT SW BOARD	
* 266	1-654-909-11	5 CD BOARD	
267	1-590-578-11	WIRE, FLAT TYPE (19 CORE)	
* 268	X-4945-718-2	LEVER (R) ASSY	
269	4-964-487-02	PULLEY (U/D)	
270	4-964-477-01	BELT (U/D)	
271	4-972-077-01	CAM (R), GROOVE	
* 272	X-4945-716-2	SLIDER ASSY	
* 273	X-4945-719-2	LEVER (L) ASSY	
M501	A-4660-642-A	MOTOR (U/D) ASSY	

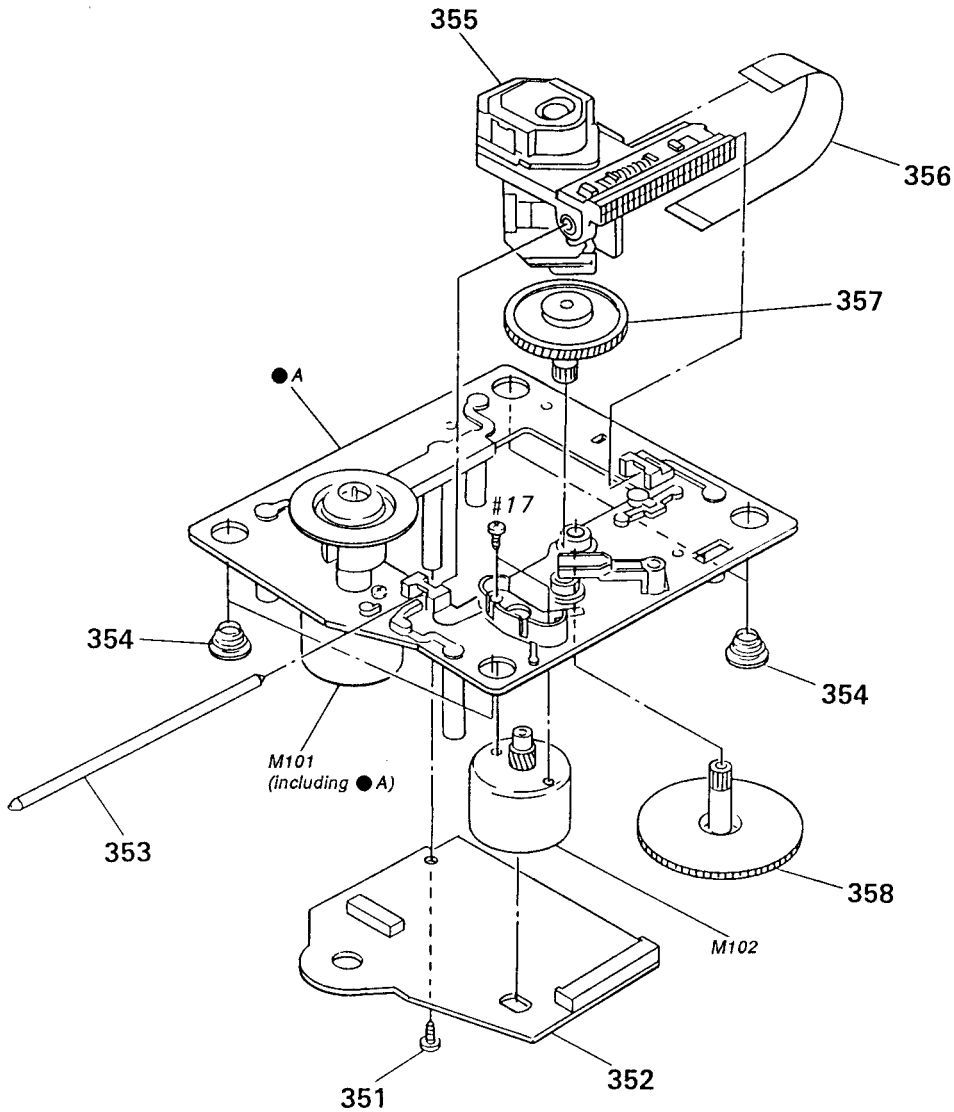
7-7. CD MECHANISM SECTION-2
(CDM33B-5BD19)



Ref. No.	Part No.	Description	Remark
301	4-972-860-02	LEVER (STOPPER)	
302	1-651-394-11	O/C SW BOARD	
303	1-651-399-11	DISC DET (B) BOARD	
304	X-4945-714-1	BASE (TRAY B) ASSY, FITTING	
305	1-651-391-11	TRAY MOTOR BOARD	
306	4-964-458-01	SLIDER (CLICK)	
307	4-964-481-01	SPRING (A), TENSION	
308	4-964-459-01	LEVER (STOPPER)	
309	4-964-482-01	SPRING (B), TENSION	
310	4-964-453-01	TRAY (MAIN)	
311	1-651-398-11	DISC DET (A) BOARD	
312	1-452-719-11	MAGNET ASSY	
313	4-964-492-01	BASE (MAGNET), FITTING	
314	3-531-576-11	RIVET	
315	4-972-861-01	ROPE	
316	4-972-862-02	GUIDE (ROPE)	
317	4-972-863-01	SPRING (ROPE), TENSION	
* 318	4-964-460-03	LEVER (STOCK)	
319	1-651-392-11	OUT SW BOARD	
320	4-964-455-01	SLIDER (SELECTION)	
321	X-4944-659-1	LEVER (GOOSENECK) ASSY	

Ref. No.	Part No.	Description	Remark
322	4-964-463-02	GEAR (TRAY R)	
323	4-957-798-01	WASHER, STOPPER	
324	1-651-393-11	MID SENS BOARD	
325	4-967-196-01	SPRING (CLICK), LEAF	
326	1-651-395-11	IN SW BOARD	
327	4-964-464-02	GEAR (DECELERATION)	
328	4-964-465-02	PULLEY (TRAY)	
329	4-964-476-01	BELT (R)	
330	3-319-030-01	BELT (MIDWAY)	
331	4-964-462-02	GEAR (TRAY F)	
332	4-964-193-01	STOCKER	
333	X-4944-827-1	TRAY (SUB NO. 5) ASSY	
334	X-4944-826-1	TRAY (SUB NO. 4) ASSY	
335	X-4944-825-1	TRAY (SUB NO. 3) ASSY	
336	X-4944-824-1	TRAY (SUB NO. 2) ASSY	
337	X-4944-823-1	TRAY (SUB NO. 1) ASSY	
338	4-933-134-01	SCREW (+PTPWH M2.6×6)	
* 339	4-967-859-01	CUSHION	
340	3-701-439-21	WASHER	
341	4-951-620-01	SCREW (2.6×8), +BVTP	
M502	X-4944-463-1	MOTOR (TRAY) ASSY	

7-8. CD MECHANISM SECTION-3 (BU-5BD19)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
351	4-951-620-01	SCREW (2.6×8), +BVTP	
352	A-4673-402-A	BD BOARD, COMPLETE	
353	4-917-565-01	SHAFT, SLED	
354	4-951-940-01	INSULATOR (BU)	
⚠355	8-848-367-11	DEVICE, OPTICAL KSS-213B/K-N	

Ref. No.	Part No.	Description	Remark
356	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
357	4-917-567-01	GEAR (M)	
358	4-917-564-01	GEAR (P), FLATNESS	
M101	A-4604-363-A	MOTOR (SPINDLE) ASSY	
M102	X-4917-504-1	MOTOR (SLED) ASSY	

SECTION 8
ELECTRICAL PARTS LIST

BD

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation

CND	: Canadian	G	: German
IT	: Italian	EE	: East European
AUS	: Australian	EA	: Saudi Arabia
AR	: Argentine	HK	: Hong Kong
MX	: Mexican	MY	: Malaysia
SP	: Singapore	JE	: Tourist
CH	: Chinese		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
	A-4673-402-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C134	1-164-346-11	CERAMIC CHIP	1uF		16V
C135	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C149	1-164-346-11	CERAMIC CHIP	1uF		16V
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P			
		< IC >			
IC101	8-752-069-56	IC CXA1782BQ			
IC102	8-759-291-06	IC BA6397FP			
IC103	8-752-372-94	IC CXD2507AQ			
IC104	8-759-185-29	IC PCM1710U-B			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
Q102	8-729-424-08	TRANSISTOR UN2111			
Q103	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-097-00	METAL CHIP	100K	5%	1/10W
R105	1-216-089-00	METAL CHIP	47K	5%	1/10W
R106	1-216-089-00	METAL CHIP	47K	5%	1/10W
R107	1-216-089-00	METAL CHIP	47K	5%	1/10W
R108	1-216-089-00	METAL CHIP	47K	5%	1/10W
R109	1-216-097-00	METAL CHIP	100K	5%	1/10W
R112	1-216-077-00	METAL CHIP	15K	5%	1/10W
R113	1-216-077-00	METAL CHIP	15K	5%	1/10W

BD 5 CD

Ref.No.	Part No.	Description			Remark
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-093-00	METAL CHIP	68K	5%	1/10W
R118	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R119	1-216-121-00	METAL CHIP	1M	5%	1/10W
R120	1-216-089-00	METAL CHIP	47K	5%	1/10W
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R122	1-216-097-00	METAL CHIP	100K	5%	1/10W
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R126	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R127	1-216-089-00	METAL CHIP	47K	5%	1/10W
R128	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R129	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R138	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R139	1-216-033-00	METAL CHIP	220	5%	1/10W
R140	1-216-081-00	METAL CHIP	22K	5%	1/10W
R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R143	1-216-121-00	METAL CHIP	1M	5%	1/10W
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W
R145	1-216-097-00	METAL CHIP	100K	5%	1/10W
R146	1-216-097-00	METAL CHIP	100K	5%	1/10W
R147	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R148	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R149	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R150	1-216-037-00	METAL CHIP	330	5%	1/10W
R151	1-216-037-00	METAL CHIP	330	5%	1/10W
R152	1-216-037-00	METAL CHIP	330	5%	1/10W
R153	1-216-089-00	METAL CHIP	47K	5%	1/10W
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-001-00	METAL CHIP	10	5%	1/10W

< VARIABLE RESISTOR >

RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K	(FOCUS BIAS)
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K	(FOCUS GAIN)
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K	(TRACKING GAIN)

< SWITCH >

S101	1-572-085-11	SWITCH, LEAF (LIMIT)

< VIBRATOR >

X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)

****

*	1-654-909-11	5 CD BOARD			
		**********			

< CAPACITOR >

C1501	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1502	1-124-903-11	ELECT	1uF	20%	50V
C1503	1-162-306-11	CERAMIC	0.01uF	30%	16V

< CONNECTOR >

* CN1501	1-564-666-11	PIN, CONNECTOR 10P
* CN1502	1-564-340-00	PIN, CONNECTOR 6P
* CN1503	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
* CN1505	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN1506	1-506-468-11	PIN, CONNECTOR 3P
* CN1508	1-568-951-11	PIN, CONNECTOR 2P
* CN1515	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
* CN1517	1-573-149-11	SOCKET, CONNECTOR 19P
CN1518	1-695-342-31	PIN, CONNECTOR (PC BOARD) 19P

< DIODE >

D1501	8-719-010-29	DIODE	UZ-4.3BSB
D1502	8-719-109-82	DIODE	RD4.7ES-B3
D1503	8-719-013-05	DIODE	UZ-6.8BSC-TP

< IC >

IC1501	8-759-277-68	IC	LB1648
IC1502	8-759-000-58	IC	MC14093BCP

< TRANSISTOR >

Q1501	8-729-900-80	TRANSISTOR	DTC114ES
Q1502	8-729-900-80	TRANSISTOR	DTC114ES

< RESISTOR >

R1501	1-249-411-11	CARBON	330	5%	1/4W
R1502	1-247-807-31	CARBON	100	5%	1/4W
R1503	1-247-807-31	CARBON	100	5%	1/4W
R1504	1-249-417-11	CARBON	1K	5%	1/4W
R1505	1-249-417-11	CARBON	1K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R1506	1-247-807-31	CARBON	100	5%	1/4W
R1507	1-247-807-31	CARBON	100	5%	1/4W
R1508	1-249-417-11	CARBON	1K	5%	1/4W
R1509	1-249-417-11	CARBON	1K	5%	1/4W
R1510	1-247-807-31	CARBON	100	5%	1/4W
R1511	1-247-807-31	CARBON	100	5%	1/4W
**********					
*	A-2007-131-A	AUDIO BOARD, COMPLETE			
		**********			
		MOTOR BOARD			
		**********			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-124-443-00	ELECT	100uF	20%	10V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-124-234-00	ELECT	22uF	20%	16V
C331	1-136-434-11	FILM	120PF	5%	630V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-124-443-00	ELECT	100uF	20%	10V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-124-234-00	ELECT	22uF	20%	16V
C431	1-136-434-11	FILM	120PF	5%	630V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-126-157-11	ELECT	10uF	20%	16V
C611	1-126-157-11	ELECT	10uF	20%	16V
C612	1-126-157-11	ELECT	10uF	20%	16V
C621	1-136-601-11	FILM	0.01uF	5%	630V
C622	1-124-925-11	ELECT	2.2uF	20%	100V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V

Ref. No.	Part No.	Description			Remark
C642	1-104-664-11	ELECT	47uF	20%	16V
C651	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN601	1-568-864-11	SOCKET, CONNECTOR 21P			
* CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
* CN651	1-564-521-11	PLUG, CONNECTOR 6P			
		< IC >			
IC601	8-759-111-44	IC uPC4570C-1			
IC602	8-759-143-54	IC uPC1330HA			
IC611	8-759-111-44	IC uPC4570C-1			
		< COIL >			
L331	1-410-780-11	INDUCTOR	27mH		
L431	1-410-780-11	INDUCTOR	27mH		
		< TRANSISTOR >			
Q621	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q622	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q623	8-729-801-93	TRANSISTOR	2SD1387		
Q651	8-729-900-65	TRANSISTOR	DTA144ES		
		< RESISTOR >			
R301	1-247-881-00	CARBON	120K	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-249-433-11	CARBON	22K	5%	1/4W
R304	1-247-889-00	CARBON	270K	5%	1/4W
R305	1-247-858-11	CARBON	13K	5%	1/4W
R311	1-247-881-00	CARBON	120K	5%	1/4W
R312	1-247-807-31	CARBON	100	5%	1/4W
R314	1-247-882-11	CARBON	130K	5%	1/4W
R315	1-247-850-11	CARBON	6.2K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R401	1-247-881-00	CARBON	120K	5%	1/4W
R402	1-249-409-11	CARBON	220	5%	1/4W
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-247-889-00	CARBON	270K	5%	1/4W
R405	1-247-858-11	CARBON	13K	5%	1/4W
R411	1-247-881-00	CARBON	120K	5%	1/4W
R412	1-247-807-31	CARBON	100	5%	1/4W
R414	1-247-882-11	CARBON	130K	5%	1/4W
R415	1-247-850-11	CARBON	6.2K	5%	1/4W
R431	1-249-430-11	CARBON	12K	5%	1/4W
R601	1-249-409-11	CARBON	220	5%	1/4W
R602	1-249-409-11	CARBON	220	5%	1/4W
R608	1-249-409-11	CARBON	220	5%	1/4W
R609	1-249-433-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W

AUDIO **MOTOR** **CD SW** **COUNT SW** **DISC DETECTION (A)** **DISC DETECTION (B)**

Ref.No.	Part No.	Description			Remark
R612	1-249-409-11	CARBON	220	5%	1/4W
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
R651	1-247-856-00	CARBON	11K	5%	1/4W
R652	1-247-856-00	CARBON	11K	5%	1/4W
R653	1-249-441-11	CARBON	100K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-241-762-11	RES, ADJ, CARBON 2.2K (PB LEVEL L)			
RV311	1-241-762-11	RES, ADJ, CARBON 2.2K (PB LEVEL L)			
RV341	1-230-725-11	RES, ADJ, CARBON 220K (REC BIAS L)			
RV401	1-241-762-11	RES, ADJ, CARBON 2.2K (PB LEVEL R)			
RV411	1-241-762-11	RES, ADJ, CARBON 2.2K (PB LEVEL R)			
RV441	1-230-725-11	RES, ADJ, CARBON 220K (REC BIAS R)			
RV651	1-241-763-11	RES, ADJ, CARBON 4.7K (TAPE SPEED NORMAL)			
RV652	1-241-763-11	RES, ADJ, CARBON 4.7K (TAPE SPEED HIGH)			
		< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			

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*	1-654-908-11	CD SW BOARD			
		**********			
		< DIODE >			
D502	8-719-032-98	LED SEL5820A (DISC 2)			
D503	8-719-032-98	LED SEL5820A (DISC 4)			
D515	8-719-032-98	LED SEL5820A (DISC 1)			
D516	8-719-032-98	LED SEL5820A (DISC 3)			
D517	8-719-032-98	LED SEL5820A (DISC 5)			
D550	8-719-032-98	LED SEL5820A (DISC 1)			
D551	8-719-032-98	LED SEL5820A (DISC 2)			
D552	8-719-032-98	LED SEL5820A (DISC 3)			
D553	8-719-032-98	LED SEL5820A (DISC 4)			
D554	8-719-032-98	LED SEL5820A (DISC 5)			
D555	8-719-032-98	LED SEL5820A (DISC 1)			
D556	8-719-032-98	LED SEL5820A (DISC 2)			
D557	8-719-032-98	LED SEL5820A (DISC 3)			
D558	8-719-032-98	LED SEL5820A (DISC 4)			
D559	8-719-032-98	LED SEL5820A (DISC 5)			
		< RESISTOR >			
R519	1-249-416-11	CARBON	820	5%	1/4W
R520	1-249-418-11	CARBON	1.2K	5%	1/4W
R521	1-249-420-11	CARBON	1.8K	5%	1/4W
R522	1-249-423-11	CARBON	3.3K	5%	1/4W

Ref.No.	Part No.	Description			Remark
R523	1-249-427-11	CARBON	6.8K	5%	1/4W
R594	1-247-807-31	CARBON	100	5%	1/4W
R595	1-249-401-11	CARBON	47	5%	1/4W
R691	1-247-807-31	CARBON	100	5%	1/4W
R692	1-247-807-31	CARBON	100	5%	1/4W
R693	1-247-807-31	CARBON	100	5%	1/4W
R694	1-247-807-31	CARBON	100	5%	1/4W
R695	1-249-401-11	CARBON	47	5%	1/4W
R696	1-249-401-11	CARBON	47	5%	1/4W
R697	1-249-401-11	CARBON	47	5%	1/4W
R698	1-249-401-11	CARBON	47	5%	1/4W
		< SWITCH >			
S511	1-554-303-21	SWITCH, TACTILE (DISC 5)			
S512	1-554-303-21	SWITCH, TACTILE (DISC 4)			
S513	1-554-303-21	SWITCH, TACTILE (DISC 3)			
S514	1-554-303-21	SWITCH, TACTILE (DISC 2)			
S515	1-554-303-21	SWITCH, TACTILE (DISC 1)			

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*	1-651-397-11	COUNT SW BOARD			
		**********			
		< SWITCH >			
SW502	1-692-193-11	SWITCH, PUSH (1 KEY) (COUNT)			
SW503	1-572-126-11	SWITCH, PUSH (1 KEY) (TRAY DOWN)			

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*	1-651-398-11	DISC DETECTION (A) BOARD			
		**********			
		< DIODE >			
D501	8-719-029-95	DIODE TLN117			

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*	1-651-399-11	DISC DETECTION (B) BOARD			
		**********			
	4-964-461-02	HOLDER (SENSOR)			
		< CONNECTOR >			
* CN510	1-568-941-11	PIN, CONNECTOR 3P			
		< TRANSISTOR >			
Q501	8-729-018-23	TRANSISTOR TPS626			
		< RESISTOR >			
R502	1-249-425-11	CARBON	4.7K	5%	1/4W

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

HP

Ref. No.	Part No.	Description	Remark
*	A-4377-484-A	HP BOARD, COMPLETE	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
*	1-654-903-11	HP BOARD **********	(CND, AEP, UK, G, IT, EE)
*	4-942-204-01	PLATE, GROUND	
		< CAPACITOR >	
C701	1-124-925-11	ELECT 2.2uF 20% 100V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C702	1-126-933-11	ELECT 100uF 20% 10V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C703	1-162-306-11	CERAMIC 0.01uF 30% 16V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C704	1-161-494-00	CERAMIC 0.022uF 25V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C705	1-124-903-11	ELECT 1uF 20% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C706	1-130-479-00	MYLAR 0.0047uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C707	1-130-473-00	MYLAR 0.0015uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C708	1-136-495-11	FILM 0.068uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C709	1-136-165-00	FILM 0.1uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C710	1-136-165-00	FILM 0.1uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C711	1-124-477-11	ELECT 47uF 20% 25V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C712	1-136-495-11	FILM 0.068uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C713	1-162-305-11	CERAMIC 0.0068uF 30% 16V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C714	1-130-479-00	MYLAR 0.0047uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C715	1-124-903-11	ELECT 1uF 20% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C716	1-130-473-00	MYLAR 0.0015uF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C717	1-124-903-11	ELECT 1uF 20% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C718	1-164-159-11	CERAMIC 0.1uF 50V	
C737	1-124-925-11	ELECT 2.2uF 20% 100V	
C738	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C739	1-162-215-31	CERAMIC 47PF 5% 50V	
C740	1-162-290-31	CERAMIC 470PF 10% 50V	
C741	1-124-902-00	ELECT 0.47uF 20% 50V	
C742	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C743	1-162-282-31	CERAMIC 100PF 10% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C745	1-124-925-11	ELECT 2.2uF 20% 100V	
C746	1-124-477-11	ELECT 47uF 20% 25V	
C747	1-124-477-11	ELECT 47uF 20% 25V	
C748	1-162-215-31	CERAMIC 47PF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C751	1-162-294-31	CERAMIC 0.001uF 10% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C752	1-162-215-31	CERAMIC 47PF 5% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C753	1-162-290-31	CERAMIC 470PF 10% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C755	1-162-290-31	CERAMIC 470PF 10% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C755	1-162-282-31	CERAMIC 100PF 10% 50V	(CND, AEP, UK, G, IT, EE)
C758	1-124-902-00	ELECT 0.47uF 20% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C759	1-162-215-31	CERAMIC 47PF 5% 50V	
C781	1-162-288-31	CERAMIC 330PF 10% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C782	1-162-288-31	CERAMIC 330PF 10% 50V	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C790	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CN701	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
CN905	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	(CND, AEP, UK, G, IT, EE)
		< IC >	
IC701	8-759-265-83	IC M65843FP	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
IC705	8-759-981-96	IC RC4560D	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
IC706	8-759-634-51	IC M5218AP	(CND, AEP, UK, G, IT, EE)
IC706	8-759-981-96	IC RC4560D	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
		< JACK >	
J701	1-507-854-00	JACK, PHONE (MIX MIC)	(EXCEPT AEP, UK, G, IT, EE)
J702	1-507-854-00	JACK, PHONE (MIX MIC)	(AEP, UK, G, IT, EE)
J703	1-507-854-00	JACK, PHONE (HEADPHONES)	
		< COIL >	
L701	1-410-521-11	INDUCTOR 100uH	(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)

HP IN SW KARAOKE SW LEAF SWITCH

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R701	1-247-903-00	CARBON 1M 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R702	1-249-431-11	CARBON 15K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R703	1-249-431-11	CARBON 15K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R704	1-249-431-11	CARBON 15K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R705	1-249-429-11	CARBON 10K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R706	1-249-433-11	CARBON 22K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R707	1-249-431-11	CARBON 15K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R708	1-249-429-11	CARBON 10K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R709	1-249-431-11	CARBON 15K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R710	1-249-433-11	CARBON 22K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R711	1-249-399-11	CARBON 33 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R738	1-249-429-11	CARBON 10K 5% 1/4W	
R739	1-249-417-11	CARBON 1K 5% 1/4W	
R740	1-249-441-11	CARBON 100K 5% 1/4W	
R741	1-249-417-11	CARBON 1K 5% 1/4W	
R742	1-249-433-11	CARBON 22K 5% 1/4W	
R743	1-249-429-11	CARBON 10K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R744	1-249-431-11	CARBON 15K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R745	1-249-437-11	CARBON 47K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R746	1-247-807-31	CARBON 100 5% 1/4W	
		(CND, AEP, UK, G, IT, EE)	
R746	1-249-417-11	CARBON 1K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R750	1-249-429-11	CARBON 10K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R751	1-249-417-11	CARBON 1K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R752	1-249-441-11	CARBON 100K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R753	1-249-417-11	CARBON 1K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R754	1-249-433-11	CARBON 22K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R755	1-249-429-11	CARBON 10K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R756	1-247-881-00	CARBON 120K 5% 1/4W	
		(CND, AEP, UK, G, IT, EE)	
R756	1-249-435-11	CARBON 33K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R757	1-249-429-11	CARBON 10K 5% 1/4W	
R781	1-249-423-11	CARBON 3.3K 5% 1/4W	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
		< VARIABLE RESISTOR >	
RV701	1-223-815-11	RES, VAR, CARBON 50K(MIC LEVEL)	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
RV702	1-223-815-11	RES, VAR, CARBON 50K(ECHO LEVEL)	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
		< CRYSTAL >	
X701	1-527-978-00	OSCILLATOR, CERAMIC (320kHz)	
		(E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
**********			
*	1-651-395-11	IN SW BOARD	
		**********	
		< CONNECTOR >	
* CN502	1-568-951-11	PIN, CONNECTOR 2P	
		< SWITCH >	
SW501	1-692-193-11	SWITCH, PUSH (1 KEY) (LOAD IN)	
**********			
*	1-654-905-11	KARAOKE SW BOARD	
		**********	
		< DIODE >	
D514	8-719-812-44	LED TLO124 (KARAOKE PON)	
		< RESISTOR >	
R535	1-249-423-11	CARBON 3.3K 5% 1/4W	
R536	1-249-427-11	CARBON 6.8K 5% 1/4W	
		< SWITCH >	
S528	1-554-303-21	SWITCH, TACTILE (KARAOKE PON)	
**********			
*	1-650-669-11	LEAF SWITCH BOARD	
		**********	
*	3-381-776-01	HOLDER (LED)	
		< CONNECTOR >	
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P	

Ref.No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q1001	8-719-710-02	TRANSISTOR PHOTO REFLECTOR NJL5165K-A			
Q1002	8-719-710-02	TRANSISTOR PHOTO REFLECTOR NJL5165K-A			
		< RESISTOR >			
R1001	1-249-412-11	CARBON	390	5%	1/4W
R1002	1-249-412-11	CARBON	390	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
		< SWITCH >			
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)			
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)			
S1004	1-571-281-21	SWITCH, LEAF (A HALF)			
S1005	1-571-281-21	SWITCH, LEAF (A CrO_2)			
S1006	1-572-248-11	SWITCH, LEAF (REC A)			
S1007	1-572-248-11	SWITCH, LEAF (B HALF)			
S1008	1-571-281-21	SWITCH, LEAF (B CrO_2)			
S1009	1-571-281-21	SWITCH, LEAF (REC B)			
**********					
*	A-4377-476-A	MAIN BOARD, COMPLETE (CND)			
*	A-4377-486-A	MAIN BOARD, COMPLETE (E2, AR, MX)			
*	A-4377-490-A	MAIN BOARD, COMPLETE (E3, HK, MY, SP, PX, CH)			
*	A-4377-491-A	MAIN BOARD, COMPLETE (EA)			
*	A-4377-493-A	MAIN BOARD, COMPLETE (AUS)			
*	A-4377-501-A	MAIN BOARD, COMPLETE (AEP2)			
*	A-4377-502-A	MAIN BOARD, COMPLETE (G)			
*	A-4377-503-A	MAIN BOARD, COMPLETE (IT)			
*	A-4377-504-A	MAIN BOARD, COMPLETE (UK)			
*	A-4377-505-A	MAIN BOARD, COMPLETE (EE)			
*	A-4378-633-A	MAIN BOARD, COMPLETE (JE)			
*	A-4377-499-A	MAIN BOARD, COMPLETE (AEP1)			
		**********			
		< CAPACITOR >			
C1	1-162-306-11	CERAMIC	0.01uF	30%	16V
C2	1-162-205-31	CERAMIC	18PF	5%	50V
C3	1-162-306-11	CERAMIC	0.01uF	30%	16V
C4	1-162-306-11	CERAMIC	0.01uF	30%	16V
C5	1-126-967-11	ELECT	47uF	20%	16V
C6	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP, UK, G, IT)
C7	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP, UK, G, IT, EE, CND)
C10	1-162-306-11	CERAMIC	0.01uF	30%	16V (PX, JE, E3, EA, SP, MY, CH)
C11	1-164-159-11	CERAMIC	0.1uF		50V (PX, JE, E3, EA, SP, MY, CH)
C13	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP, UK)
C14	1-164-159-11	CERAMIC	0.1uF		50V (PX, JE, E3, EA, SP, MY, HK, CH)
C15	1-136-162-00	FILM	0.056uF	5%	50V (PX, JE, E3, EA, SP, MY, HK, CH)
C16	1-126-933-11	ELECT	100uF	20%	16V (PX, JE, E3, EA, SP, MY, HK, CH)
C17	1-162-306-11	CERAMIC	0.01uF	30%	16V (PX, JE, E3, EA, SP, MY, HK, CH)
C18	1-162-195-31	CERAMIC	4.7PF	10%	50V (PX, JE, E3, EA, SP, MY, HK, CH)
C19	1-102-527-11	CERAMIC	82PF	5%	50V (AEP, UK, EE)
C20	1-162-211-31	CERAMIC	33PF	5%	50V (AEP, UK)
C21	1-162-306-11	CERAMIC	0.01uF	30%	16V
C22	1-162-306-11	CERAMIC	0.01uF	30%	16V
C23	1-162-199-31	CERAMIC	10PF	5%	50V
C24	1-162-199-31	CERAMIC	10PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C27	1-162-306-11	CERAMIC	0.01uF	30%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-136-485-81	FILM	0.01uF	5%	50V
C32	1-124-463-00	ELECT	0.1uF	20%	50V
C33	1-136-153-00	FILM	0.01uF	5%	50V (CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C33	1-164-159-11	CERAMIC	0.1uF		50V (AEP, UK)
C34	1-162-196-31	CERAMIC	5.6PF	10%	50V (CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)
C34	1-162-232-11	CERAMIC	10PF	5%	50V (AEP, UK)
C38	1-162-203-31	CERAMIC	15PF	5%	50V (AEP, UK)
C41	1-162-306-11	CERAMIC	0.01uF	30%	16V
C42	1-162-306-11	CERAMIC	0.01uF	30%	16V
C43	1-162-306-11	CERAMIC	0.01uF	30%	16V
C44	1-162-306-11	CERAMIC	0.01uF	30%	16V
C45	1-162-306-11	CERAMIC	0.01uF	30%	16V
C46	1-162-306-11	CERAMIC	0.01uF	30%	16V
C47	1-126-967-11	ELECT	47uF	20%	16V
C48	1-162-306-11	CERAMIC	0.01uF	30%	16V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1uF	20%	50V
C51	1-124-903-11	ELECT	1uF	20%	50V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-126-964-11	ELECT	10uF	20%	50V
C55	1-126-964-11	ELECT	10uF	20%	50V
C56	1-126-964-11	ELECT	10uF	20%	50V
C57	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C58	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C59	1-136-158-00	FILM	0.027uF	5%	50V (CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)

MAIN

Ref. No.	Part No.	Description			Remark
C59	1-136-160-00	FILM	0.039uF	5% 50V	(AEP, UK)
C60	1-136-158-00	FILM	0.027uF	5% 50V	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
C60	1-136-160-00	FILM	0.039uF	5% 50V	(AEP, UK)
C61	1-124-903-11	ELECT	1uF	20% 50V	
C62	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C63	1-162-303-11	CERAMIC	0.0033uF	30% 16V	
C64	1-126-967-11	ELECT	47uF	20% 16V	
C65	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C66	1-126-111-11	ELECT	3.3uF	20% 50V	
C67	1-126-964-11	ELECT	10uF	20% 50V	
C94	1-126-964-11	ELECT	10uF	20% 50V	(AEP2)
C94	1-162-306-11	CERAMIC	0.01uF	30% 16V	(EXCEPT AEP2)
C101	1-162-286-31	CERAMIC	220PF	10% 50V	
C102	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C112	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C113	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C124	1-126-964-11	ELECT	10uF	20% 50V	
C125	1-136-161-00	FILM	0.047uF	5% 50V	
C126	1-136-161-00	FILM	0.047uF	5% 50V	
C127	1-136-169-00	FILM	0.22uF	5% 50V	
C128	1-162-305-11	CERAMIC	0.0068uF	30% 16V	
C129	1-136-159-00	FILM	0.033uF	5% 50V	
C130	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
C130	1-162-306-11	CERAMIC	0.01uF	30% 16V	(AEP, UK)
C131	1-136-169-00	FILM	0.22uF	5% 50V	
C132	1-136-169-00	FILM	0.22uF	5% 50V	
C133	1-126-964-11	ELECT	10uF	20% 50V	
C134	1-126-964-11	ELECT	10uF	20% 50V	
C135	1-136-169-00	FILM	0.22uF	5% 50V	
C136	1-136-169-00	FILM	0.22uF	5% 50V	
C137	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
C137	1-162-306-11	CERAMIC	0.01uF	30% 16V	(AEP, UK)
C138	1-136-159-00	FILM	0.033uF	5% 50V	
C139	1-162-305-11	CERAMIC	0.0068uF	30% 16V	
C140	1-136-169-00	FILM	0.22uF	5% 50V	
C141	1-136-161-00	FILM	0.047uF	5% 50V	
C142	1-161-494-00	CERAMIC	0.022uF	25V	
C143	1-126-964-11	ELECT	10uF	20% 50V	
C144	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C145	1-124-925-11	ELECT	2.2uF	20% 100V	
C146	1-126-964-11	ELECT	10uF	20% 50V	
C147	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C148	1-162-286-31	CERAMIC	220PF	10% 50V	
C149	1-126-964-11	ELECT	10uF	20% 50V	
C150	1-164-159-11	CERAMIC	0.1uF	50V	

Ref. No.	Part No.	Description			Remark
C151	1-162-286-31	CERAMIC	220PF	10% 50V	
C152	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C153	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C154	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C155	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C156	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C157	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C160	1-164-159-11	CERAMIC	0.1uF	50V	
C161	1-136-165-00	FILM	0.1uF	5% 50V	
C162	1-136-165-00	FILM	0.1uF	5% 50V	
C163	1-136-165-00	FILM	0.1uF	5% 50V	
C164	1-136-165-00	FILM	0.1uF	5% 50V	
C165	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C166	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C171	1-124-611-00	ELECT	1uF	20% 50V	
C172	1-124-611-00	ELECT	1uF	20% 50V	
C173	1-126-964-11	ELECT	10uF	20% 50V	
C174	1-126-964-11	ELECT	10uF	20% 50V	
C181	1-126-964-11	ELECT	10uF	20% 50V	
C182	1-126-964-11	ELECT	10uF	20% 50V	
C183	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C184	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C196	1-126-964-11	ELECT	10uF	20% 50V	
C198	1-162-286-31	CERAMIC	220PF	10% 50V	
C199	1-126-964-11	ELECT	10uF	20% 50V	
C300	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C303	1-136-165-00	FILM	0.1uF	5% 50V	
C304	1-162-206-31	CERAMIC	20PF	5% 50V	
C305	1-162-206-31	CERAMIC	20PF	5% 50V	
C307	1-124-927-11	ELECT	4.7uF	20% 100V	
C320	1-126-927-11	ELECT	2200uF	20% 10V	
C321	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C322	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C380	1-126-964-11	ELECT	10uF	20% 50V	
C381	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C383	1-162-290-31	CERAMIC	470PF	10% 50V	
C398	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C401	1-162-286-31	CERAMIC	220PF	10% 50V	
C402	1-130-479-00	MYLAR	0.0047uF	5% 50V	
C403	1-162-303-11	CERAMIC	0.0033uF	30% 16V	
C404	1-164-159-11	CERAMIC	0.1uF	50V	
C406	1-124-903-11	ELECT	1uF	20% 50V	
C407	1-124-902-00	ELECT	0.47uF	20% 50V	
C408	1-126-964-11	ELECT	10uF	20% 50V	
C409	1-126-964-11	ELECT	10uF	20% 50V	
C410	1-162-302-11	CERAMIC	0.0022uF	30% 16V	
C411	1-124-903-11	ELECT	1uF	20% 50V	
C420	1-164-159-11	CERAMIC	0.1uF	50V	
C422	1-126-933-11	ELECT	100uF	20% 10V	

Ref. No.	Part No.	Description			Remark
C423	1-126-933-11	ELECT	100uF	20% 10V	
C424	1-164-159-11	CERAMIC	0.1uF	50V	
C425	1-164-159-11	CERAMIC	0.1uF	50V	
C426	1-164-159-11	CERAMIC	0.1uF	50V	
C427	1-126-952-11	ELECT	1000uF	20% 16V	
C428	1-126-933-11	ELECT	100uF	20% 16V	
C430	1-126-964-11	ELECT	10uF	20% 50V	
C431	1-126-964-11	ELECT	10uF	20% 50V	
C451	1-162-286-31	CERAMIC	220PF	10% 50V	
C452	1-130-479-00	MYLAR	0.0047uF	5% 50V	
C453	1-162-303-11	CERAMIC	0.0033uF	30% 16V	
C454	1-164-159-11	CERAMIC	0.1uF	50V	
C456	1-124-903-11	ELECT	1uF	20% 50V	
C457	1-124-902-00	ELECT	0.47uF	20% 50V	
C458	1-126-964-11	ELECT	10uF	20% 50V	
C459	1-126-964-11	ELECT	10uF	20% 50V	
C460	1-162-302-11	CERAMIC	0.0022uF	30% 16V	
C461	1-124-903-11	ELECT	1uF	20% 50V	
C801	1-137-399-11	FILM	0.1uF	10% 100V	
C802	1-137-399-11	FILM	0.1uF	10% 100V	
C803	1-126-974-11	ELECT	3300uF	20% 50V	
C804	1-126-974-11	ELECT	3300uF	20% 50V	
C805	1-124-122-11	ELECT	100uF	20% 50V	
C806	1-124-122-11	ELECT	100uF	20% 50V	
C807	1-162-306-11	CERAMIC	0.01uF	30% 16V	
	(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
C807	1-136-485-81	FILM	0.01uF	5% 50V	(AEP, UK)
C808	1-126-947-11	ELECT	47uF	20% 35V	
C809	1-126-936-11	ELECT	3300uF	20% 16V	
C810	1-126-943-11	ELECT	2200uF	20% 25V	
C811	1-126-936-11	ELECT	3300uF	20% 16V	
C812	1-126-952-11	ELECT	1000uF	20% 16V	
C813	1-164-159-11	CERAMIC	0.1uF	50V	
	(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
C813	1-136-165-00	FILM	0.1uF	5% 50V	(AEP, UK)
C814	1-164-159-11	CERAMIC	0.1uF	50V	
	(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
C814	1-136-165-00	FILM	0.1uF	5% 50V	(AEP, UK)
C815	1-126-933-11	ELECT	100uF	20% 10V	
C824	1-126-933-11	ELECT	100uF	20% 10V	
C825	1-126-933-11	ELECT	100uF	20% 10V	
C826	1-126-916-11	ELECT	1000uF	20% 6.3V	
C827	1-124-472-11	ELECT	470uF	20% 10V	
C828	1-104-666-11	ELECT	220uF	20% 6.3V	
C829	1-104-666-11	ELECT	220uF	20% 6.3V	
C830	1-124-925-11	ELECT	2.2uF	20% 100V	
C831	1-126-964-11	ELECT	10uF	20% 50V	
C832	1-126-964-11	ELECT	10uF	20% 50V	
C833	1-128-551-11	ELECT	22uF	20% 50V	
C834	1-136-165-00	FILM	0.1uF	5% 50V	
C835	1-126-933-11	ELECT	100uF	20% 10V	
C836	1-164-159-11	CERAMIC	0.1uF	50V	
C837	1-164-159-11	CERAMIC	0.1uF	50V	
C838	1-126-933-11	ELECT	100uF	20% 10V	
C840	1-126-967-11	ELECT	47uF	20% 16V	
C886	1-164-159-11	CERAMIC	0.1uF	50V	
C887	1-164-159-11	CERAMIC	0.1uF	50V	
C9001	1-162-306-11	CERAMIC	0.01uF	30% 16V	(AEP, UK)
C9002	1-162-306-11	CERAMIC	0.01uF	30% 16V	
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
	(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
CF1	1-579-374-71	FILTER, CERAMIC			(AEP, UK)
CF2	1-567-389-11	FILTER, CERAMIC			(G, IT)
CF2	1-760-402-11	FILTER, CERAMIC			(AEP, UK)
CF3	1-567-389-11	FILTER, CERAMIC			
	(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
CF3	1-760-402-11	FILTER, CERAMIC			(AEP, UK)
		< CONNECTOR >			
CN102	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
* CN103	1-564-339-00	PIN, CONNECTOR 5P			
CN104	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CN105	1-695-340-21	PIN, CONNECTOR (PC BOARD) 17P			
CN109	1-691-765-11	PLUG (MICRO CONNECTOR) 10P			
CN110	1-564-509-11	PLUG (MICRO, CONNECTOR) 6P			
CN111	1-568-802-11	SOCKET, CONNECTOR 19P			
CN401	1-568-838-11	SOCKET, CONNECTOR 21P			
* CN402	1-568-830-11	SOCKET, CONNECTOR 11P			
CN802	1-691-772-11	PLUG (MICRO CONNECTOR) 10P			
CN1010	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
		< VARIABLE CAPACITOR >			
CV1	1-141-227-00	CAP, TRIMMER 20PF			
					(E3, EA, HK, JE, MY, SP, PX, CH)
CV2	1-141-227-00	CAP, TRIMMER 20PF			
					(E3, EA, HK, JE, MY, SP, PX, CH)
		< DIODE >			
D1	8-719-976-30	DIODE	KV1560N		
					(E3, EA, HK, JE, MY, SP, PX, CH)
D21	8-719-933-33	DIODE	HZS6A1L		
D41	8-719-987-63	DIODE	1N4148M		
D102	8-719-987-63	DIODE	1N4148M		
D103	8-719-987-63	DIODE	1N4148M		
D104	8-719-987-63	DIODE	1N4148M		
D105	8-719-987-63	DIODE	1N4148M		

MAIN

Ref. No.	Part No.	Description	Remark
D106	8-719-210-21	DIODE 11EQS04	
D301	8-719-200-82	DIODE 11ES2	
D302	8-719-987-63	DIODE 1N4148M	
D304	8-719-987-63	DIODE 1N4148M	
D401	8-719-987-63	DIODE 1N4148M	
D402	8-719-987-63	DIODE 1N4148M	
D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-987-63	DIODE 1N4148M	
D803	8-719-025-03	DIODE RBA-402-SL	
D804	8-719-200-82	DIODE 11ES2	
D805	8-719-200-82	DIODE 11ES2	
D806	8-719-934-18	LED HZS27-2L	
D807	8-719-200-82	DIODE 11ES2	
D808	8-719-200-82	DIODE 11ES2	
D809	8-719-987-63	DIODE 1N4148M	
D810	8-719-987-63	DIODE 1N4148M	
D811	8-719-200-82	DIODE 11ES2	
D812	8-719-200-82	DIODE 11ES2	
D813	8-719-200-82	DIODE 11ES2	
D814	8-719-200-82	DIODE 11ES2	
D815	8-719-987-63	DIODE 1N4148M	
D817	8-719-987-63	DIODE 1N4148M	
D819	8-719-987-63	DIODE 1N4148M	
D823	8-719-200-82	DIODE 11ES2	
D824	8-719-200-82	DIODE 11ES2	
D901	8-719-987-63	DIODE 1N4148M	
D902	8-719-987-63	DIODE 1N4148M	
		< FRONT END >	
FE1	1-465-396-11	FRONT END (3 GANG) (EE)	
FE1	1-693-251-11	FRONT END (JE)	
FE1	1-465-673-11	FRONT END (2 BAND (CND, E, EA, AR, AUS, HK, MX, MY, SP, PX, CH)	
FE1	1-693-217-11	FRONT END (4 GANG) (AEP, UK, G, IT)	
FE2	1-239-262-11	ENCAPSULATED COMPONENT (E3, EA, HK, JE, MY, SP, PX, CH)	
FE2	1-239-260-11	ENCAPSULATED COMPONENT (CND, E2, G, IT, AR, AUS, MX)	
FE2	1-233-281-11	ENCAPSULATED COMPONENT (AEP, UK, EE)	
		< IC >	
IC21	8-759-288-54	IC LC72130	
IC41	8-759-176-03	IC LA1835	
IC101	8-759-291-98	IC TMP87CP64F-6254	
IC102	8-759-000-48	IC MC14052BCP	
IC104	8-759-140-53	IC uPD4053BC	
IC107	8-759-634-51	IC M5218AP	
IC108	8-759-291-98	IC M62423FP	
IC109	8-759-281-42	IC TC9210P	

Ref. No.	Part No.	Description	Remark
IC301	8-759-916-14	IC SN74HC04AN	
IC401	8-759-289-38	IC HA12195NT	
IC402	8-759-822-09	IC LB1641	
IC801	8-759-111-68	IC uPC1237HA	
IC802	8-759-231-53	IC TA7805S	
IC803	8-759-231-58	IC TA7812S	
IC804	8-759-288-53	IC LA5617	
IC805	8-759-165-80	IC PST600C-T	
IC806	8-759-604-30	IC M5F7808L	
		< IFT >	
IFT41	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JACK >	
* J101	1-580-912-21	JACK, PIN 4P (AUX IN)	
		< COIL >	
L1	1-410-521-11	INDUCTOR 100uH (E3, EA, HK, JE, MY, SP, PX, CH)	
L2	1-408-397-00	INDUCTOR 1uH (AEP, UK)	
L41	1-407-500-00	INDUCTOR 4.7mH	
L401	1-410-482-31	INDUCTOR 100uH	
L801	1-420-872-00	COIL, AIR-CORE (AEP, UK, G, IT)	
L851	1-420-872-00	COIL, AIR-CORE (AEP, UK, G, IT)	
		< FILTER >	
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q2	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q3	8-729-900-61	TRANSISTO DTA114ES	
Q4	8-729-230-99	TRANSISTOR 2SC2669-OY (AEP, UK, G, IT)	
Q5	8-729-230-99	TRANSISTOR 2SC2669-OY (AEP, UK, G, IT)	
Q8	8-729-231-20	TRANSISTOR 2SK161-YGR (E3, EA, SP, MY, HK, PX, CH)	
Q9	8-729-119-76	TRANSISTOR 2SA1175-HFE (AEP, UK, EE, E3, EA, SP, MY, HK, PX, CH)	
Q10	8-729-119-76	TRANSISTOR 2SA1175-HFE (E3, EA, SP, MY, HK, PX, CH)	
Q11	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, EE)	
Q12	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, E3, EA, EE, HK, JE, MY, SP, PX, CH)	
Q13	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, E3, EA, EE, HK, JE, MY, SP, PX, CH)	
Q14	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, E3, EA, EE, HK, JE, MY, SP, PX, CH)	

Ref. No.	Part No.	Description				Remark
Q105	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q107	8-729-900-80	TRANSISTOR	DTC114ES			
Q108	8-729-900-80	TRANSISTOR	DTC114ES			
Q110	8-729-900-80	TRANSISTOR	DTC114ES			
		(CND, E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
Q170	8-729-900-61	TRANSISTOR	DTA114ES			
Q171	8-729-141-26	TRANSISTOR	2SC3622A-LK			
Q172	8-729-141-26	TRANSISTOR	2SC3622A-LK			
Q173	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q174	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q303	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q401	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q403	8-729-900-65	TRANSISTOR	DTA144ES			
Q404	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q405	8-729-801-93	TRANSISTOR	2SD1387-3			
Q408	8-729-900-61	TRANSISTOR	DTA114ES			
Q409	8-729-900-80	TRANSISTOR	DTC114ES			
Q410	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q411	8-729-900-80	TRANSISTOR	DTC114ES			
Q412	8-729-900-65	TRANSISTOR	DTA144ES			
Q413	8-729-900-65	TRANSISTOR	DTA144ES			
Q414	8-729-900-65	TRANSISTOR	DTA144ES			
Q451	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q801	8-729-900-63	TRANSISTOR	DTA124ES			
Q802	8-729-900-89	TRANSISTOR	DTC144ES			
Q807	8-729-900-89	TRANSISTOR	DTC144ES			
Q808	8-729-118-01	TRANSISTOR	2SB1116-K			
Q809	8-729-900-89	TRANSISTOR	DTC144ES			
Q810	8-729-118-01	TRANSISTOR	2SB1116-K			
Q811	8-729-118-01	TRANSISTOR	2SB1116-K			
Q812	8-729-900-61	TRANSISTOR	DTA114ES			
Q813	8-729-801-93	TRANSISTOR	2SD1387-3			
Q814	8-729-900-89	TRANSISTOR	DTC144ES			
		< RESISTOR >				
R3	1-247-807-31	CARBON	100	5%	1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
R4	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-249-409-11	CARBON	220	5%	1/4W	
R7	1-249-411-11	CARBON	330	5%	1/4W	
R8	1-249-432-11	CARBON	18K	5%	1/4W	
R9	1-249-434-11	CARBON	27K	5%	1/4W	
R10	1-249-411-11	CARBON	330	5%	1/4W	
R11	1-249-411-11	CARBON	330	5%	1/4W	(AEP, UK, G, IT)
R12	1-249-432-11	CARBON	18K	5%	1/4W	(AEP, UK, G, IT)
R13	1-249-434-11	CARBON	27K	5%	1/4W	(AEP, UK, G, IT)
R14	1-249-411-11	CARBON	330	5%	1/4W	(AEP, UK, G, IT)
R15	1-249-414-11	CARBON	560	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R16	1-249-414-11	CARBON	560	5%	1/4W	(AEP, UK, G, IT)
R17	1-247-807-31	CARBON	100	5%	1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
R17	1-249-399-11	CARBON	33	5%	1/4W	(AEP, UK)
R18	1-249-429-11	CARBON	10K	5%	1/4W	
		(CND, AEP, UK, E, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
R19	1-249-429-11	CARBON	10K	5%	1/4W	
		(CND, AEP, UK, E, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)				
R20	1-249-429-11	CARBON	10K	5%	1/4W	
						(E3, EA, HK, JE, MY, SP, PX, CH)
R21	1-249-417-11	CARBON	1K	5%	1/4W	
R22	1-249-417-11	CARBON	1K	5%	1/4W	
R23	1-249-417-11	CARBON	1K	5%	1/4W	
R24	1-249-417-11	CARBON	1K	5%	1/4W	
R25	1-249-425-11	CARBON	4.7K	5%	1/4W	
R26	1-249-435-11	CARBON	33K	5%	1/4W	
R27	1-249-429-11	CARBON	10K	5%	1/4W	
R28	1-249-417-11	CARBON	1K	5%	1/4W	
R29	1-249-423-11	CARBON	3.3K	5%	1/4W	
R30	1-247-807-31	CARBON	100	5%	1/4W	
R31	1-247-807-31	CARBON	100	5%	1/4W	
R32	1-249-421-11	CARBON	2.2K	5%	1/4W	
R33	1-249-425-11	CARBON	4.7K	5%	1/4W	
R34	1-249-425-11	CARBON	4.7K	5%	1/4W	
R35	1-249-425-11	CARBON	4.7K	5%	1/4W	
R36	1-247-807-31	CARBON	100	5%	1/4W	
R37	1-249-429-11	CARBON	10K	5%	1/4W	
R38	1-249-437-11	CARBON	47K	5%	1/4W	
R41	1-249-437-11	CARBON	47K	5%	1/4W	
R42	1-249-423-11	CARBON	3.3K	5%	1/4W	
R43	1-249-442-11	CARBON	510	5%	1/4W	
R44	1-247-807-31	CARBON	100	5%	1/4W	
R45	1-247-842-11	CARBON	3K	5%	1/4W	
R46	1-249-429-11	CARBON	10K	5%	1/4W	
R47	1-249-441-11	CARBON	100K	5%	1/4W	
R48	1-249-423-11	CARBON	3.3K	5%	1/4W	
R49	1-249-423-11	CARBON	3.3K	5%	1/4W	
R50	1-249-426-11	CARBON	5.6K	5%	1/4W	
R51	1-249-426-11	CARBON	5.6K	5%	1/4W	
R52	1-249-435-11	CARBON	33K	5%	1/4W	
R53	1-249-429-11	CARBON	10K	5%	1/4W	
R54	1-249-395-11	CARBON	15	5%	1/4W	
R55	1-249-399-11	CARBON	33	5%	1/4W	
R92	1-249-429-11	CARBON	10K	5%	1/4W	
						(E3, EA, MY, SP, JE, HK, PX, CH)
R93	1-249-429-11	CARBON	10K	5%	1/4W	
						(AEP, UK, EE, E3, EA, MY, SP, JE, HK, PX, CH)
R101	1-249-425-11	CARBON	4.7K	5%	1/4W	
R102	1-249-427-11	CARBON	6.8K	5%	1/4W	
R111	1-249-429-11	CARBON	10K	5%	1/4W	

MAIN

Ref. No.	Part No.	Description			Remark
R112	1-249-429-11	CARBON	10K	5% 1/4W	
R114	1-249-429-11	CARBON	10K	5% 1/4W	
		(CND, E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R128	1-249-441-11	CARBON	100K	5% 1/4W	
R129	1-249-441-11	CARBON	100K	5% 1/4W	
R130	1-249-441-11	CARBON	100K	5% 1/4W	
R131	1-249-441-11	CARBON	100K	5% 1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R131	1-259-033-81	CARBON	1M	5% 1/4W	(AEP, UK)
R133	1-249-417-11	CARBON	1K	5% 1/4W	
R134	1-247-895-00	CARBON	470K	5% 1/4W	
R135	1-249-441-11	CARBON	100K	5% 1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R135	1-259-033-81	CARBON	1M	5% 1/4W	(AEP, UK)
R140	1-249-441-11	CARBON	100K	5% 1/4W	
R143	1-249-417-11	CARBON	1K	5% 1/4W	
R144	1-249-415-11	CARBON	680	5% 1/4W	
R145	1-249-417-11	CARBON	1K	5% 1/4W	
R148	1-249-435-11	CARBON	33K	5% 1/4W	
R149	1-249-441-11	CARBON	100K	5% 1/4W	
R150	1-249-421-11	CARBON	2.2K	5% 1/4W	
R151	1-249-425-11	CARBON	4.7K	5% 1/4W	
R152	1-249-427-11	CARBON	6.8K	5% 1/4W	
R154	1-249-441-11	CARBON	100K	5% 1/4W	
R155	1-249-441-11	CARBON	100K	5% 1/4W	
R156	1-249-429-11	CARBON	10K	5% 1/4W	
R157	1-249-429-11	CARBON	10K	5% 1/4W	
R158	1-249-433-11	CARBON	22K	5% 1/4W	
R159	1-249-433-11	CARBON	22K	5% 1/4W	
R160	1-249-429-11	CARBON	10K	5% 1/4W	
R161	1-249-429-11	CARBON	10K	5% 1/4W	
R162	1-247-895-00	CARBON	470K	5% 1/4W	
R163	1-247-895-00	CARBON	470K	5% 1/4W	
R164	1-249-419-11	CARBON	1.5K	5% 1/4W	
R165	1-249-419-11	CARBON	1.5K	5% 1/4W	
R168	1-249-425-11	CARBON	4.7K	5% 1/4W	
R169	1-249-425-11	CARBON	4.7K	5% 1/4W	
R170	1-249-441-11	CARBON	100K	5% 1/4W	
R172	1-249-421-11	CARBON	2.2K	5% 1/4W	
R173	1-249-429-11	CARBON	10K	5% 1/4W	
R175	1-249-421-11	CARBON	2.2K	5% 1/4W	
R176	1-249-429-11	CARBON	10K	5% 1/4W	
R180	1-249-441-11	CARBON	100K	5% 1/4W	
R181	1-249-429-11	CARBON	10K	5% 1/4W	
R182	1-249-429-11	CARBON	10K	5% 1/4W	
R183	1-249-413-11	CARBON	470	5% 1/4W	
R184	1-249-429-11	CARBON	10K	5% 1/4W	
R185	1-249-429-11	CARBON	10K	5% 1/4W	
R190	1-249-441-11	CARBON	100K	5% 1/4W	
R193	1-249-417-11	CARBON	1K	5% 1/4W	

Ref. No.	Part No.	Description			Remark
R194	1-249-415-11	CARBON	680	5% 1/4W	
R195	1-249-417-11	CARBON	1K	5% 1/4W	
R198	1-249-435-11	CARBON	33K	5% 1/4W	
R199	1-249-441-11	CARBON	100K	5% 1/4W	
R300	1-249-429-11	CARBON	10K	5% 1/4W	
R301	1-249-429-11	CARBON	10K	5% 1/4W	
R302	1-249-429-11	CARBON	10K	5% 1/4W	
R304	1-249-437-11	CARBON	47K	5% 1/4W	
R305	1-249-429-11	CARBON	10K	5% 1/4W	
R306	1-249-429-11	CARBON	10K	5% 1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R306	1-249-436-11	CARBON	39K	5% 1/4W	(AEP, UK)
R307	1-249-429-11	CARBON	10K	5% 1/4W	
R308	1-247-866-11	CARBON	30K	5% 1/4W	
R309-315	1-247-807-31	CARBON	100	5% 1/4W	
R316	1-249-437-11	CARBON	47K	5% 1/4W	
R317	1-249-433-11	CARBON	22K	5% 1/4W	
R318	1-249-425-11	CARBON	4.7K	5% 1/4W	
R319	1-249-425-11	CARBON	4.7K	5% 1/4W	
R320	1-249-425-11	CARBON	4.7K	5% 1/4W	
R321-325	1-249-429-11	CARBON	10K	5% 1/4W	
R326-329	1-249-413-11	CARBON	470	5% 1/4W	
R330-335	1-249-429-11	CARBON	10K	5% 1/4W	
R336	1-249-413-11	CARBON	470	5% 1/4W	
R337	1-249-413-11	CARBON	470	5% 1/4W	
R338-347	1-247-807-31	CARBON	100	5% 1/4W	
R348	1-249-413-11	CARBON	470	5% 1/4W	
R349	1-249-413-11	CARBON	470	5% 1/4W	
R364	1-249-429-11	CARBON	10K	5% 1/4W	
R365	1-249-425-11	CARBON	4.7K	5% 1/4W	
R366	1-249-425-11	CARBON	4.7K	5% 1/4W	
R367	1-249-429-11	CARBON	10K	5% 1/4W	(AEP, UK, G, IT, EA)
R367	1-249-433-11	CARBON	22K	5% 1/4W	(E2, MX)
R367	1-249-431-11	CARBON	15K	5% 1/4W	(E3, SP, MY, HK, PX, CH, AUS, JE)
R367	1-249-423-11	CARBON	3.3K	5% 1/4W	(EE)
R372	1-247-807-31	CARBON	100	5% 1/4W	
R373	1-249-423-11	CARBON	3.3K	5% 1/4W	(E3, EA, HK, JE, MY, SP, PX, CH)
R373	1-249-431-11	CARBON	15K	5% 1/4W	(IT, EE)
R373	1-249-429-11	CARBON	10K	5% 1/4W	(CND, E2, G, AR, AUS, MX)
R373	1-247-807-31	CARBON	100	5% 1/4W	(AEP, UK)
R374	1-249-431-11	CARBON	15K	5% 1/4W	(E3, AUS, HK, JE, MY, SP, PX, CH)
R374	1-249-429-11	CARBON	10K	5% 1/4W	(G, IT, EA)

Ref. No.	Part No.	Description			Remark
R374	1-249-423-11	CARBON 3.3K	5%	1/4W (EE)	
R374	1-249-433-11	CARBON 22K	5%	1/4W (CND, E2, AR, MX)	
R374	1-247-807-31	CARBON 100	5%	1/4W (AEP, UK)	
R375	1-249-418-11	CARBON 1.2K	5%	1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R375	1-249-425-11	CARBON 4.7K	5%	1/4W (AEP, UK)	
R376	1-249-431-11	CARBON 15K	5%	1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R376	1-249-435-11	CARBON 33K	5%	1/4W (AEP, UK)	
R378	1-249-429-11	CARBON 10K	5%	1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R378	1-249-435-11	CARBON 33K	5%	1/4W (AEP, UK)	
R379	1-249-429-11	CARBON 10K	5%	1/4W	
R380	1-249-429-11	CARBON 10K	5%	1/4W	
R381	1-249-429-11	CARBON 10K	5%	1/4W	
R386	1-249-429-11	CARBON 10K	5%	1/4W	
R388	1-249-425-11	CARBON 4.7K	5%	1/4W	
R397	1-249-425-11	CARBON 4.7K	5%	1/4W	
R398	1-249-425-11	CARBON 4.7K	5%	1/4W	
R399	1-247-807-31	CARBON 100	5%	1/4W	
R401	1-249-430-11	CARBON 12K	5%	1/4W	
R402	1-249-431-11	CARBON 15K	5%	1/4W	
R403	1-249-427-11	CARBON 6.8K	5%	1/4W	
R404	1-249-425-11	CARBON 4.7K	5%	1/4W	
R405	1-249-418-11	CARBON 1.2K	5%	1/4W	
R406	1-249-417-11	CARBON 1K	5%	1/4W	
R407	1-249-437-11	CARBON 47K	5%	1/4W	
R408	1-249-417-11	CARBON 1K	5%	1/4W	
R409	1-249-433-11	CARBON 22K	5%	1/4W	
R420	1-249-432-11	CARBON 18K	5%	1/4W	
R421-428					
	1-249-429-11	CARBON 10K	5%	1/4W	
R429	1-247-864-11	CARBON 24K	5%	1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R429	1-249-429-11	CARBON 10K	5%	1/4W (AEP, UK)	
R430	1-247-866-11	CARBON 30K	5%	1/4W	
R431	1-247-882-11	CARBON 130K	5%	1/4W	
R432	1-249-429-11	CARBON 10K	5%	1/4W	
R433	1-249-425-11	CARBON 4.7K	5%	1/4W	
R434	1-249-425-11	CARBON 4.7K	5%	1/4W	
R435	1-249-425-11	CARBON 4.7K	5%	1/4W	
R436	1-249-417-11	CARBON 1K	5%	1/4W	
R437	1-249-436-11	CARBON 39K	5%	1/4W	
R438	1-249-436-11	CARBON 39K	5%	1/4W	
R439	1-247-871-11	CARBON 47K	5%	1/4W	
R440	1-249-437-11	CARBON 47K	5%	1/4W	
R442	1-249-413-11	CARBON 470	5%	1/4W	
R447	1-249-419-11	CARBON 1.5K	5%	1/4W	
R448	1-249-433-11	CARBON 22K	5%	1/4W	
R449	1-249-435-11	CARBON 33K	5%	1/4W	

Ref. No.	Part No.	Description			Remark
R450	1-249-433-11	CARBON 22K	5%	1/4W	
R451	1-249-430-11	CARBON 12K	5%	1/4W	
R452	1-249-431-11	CARBON 15K	5%	1/4W	
R453	1-249-427-11	CARBON 6.8K	5%	1/4W	
R454	1-249-425-11	CARBON 4.7K	5%	1/4W	
R455	1-249-418-11	CARBON 1.2K	5%	1/4W	
R456	1-249-417-11	CARBON 1K	5%	1/4W	
R457	1-249-437-11	CARBON 47K	5%	1/4W	
R458	1-249-417-11	CARBON 1K	5%	1/4W	
R459	1-249-433-11	CARBON 22K	5%	1/4W	
R460	1-249-425-11	CARBON 4.7K	5%	1/4W	
R470	1-249-433-11	CARBON 22K	5%	1/4W	
R480	1-247-864-11	CARBON 24K	5%	1/4W	
⚠R801	1-219-122-91	FUSIBLE 0.33	5%	1/4W	F
⚠R802	1-219-122-91	FUSIBLE 0.33	5%	1/4W	F
R803	1-249-429-11	CARBON 10K	5%	1/4W	
R804	1-249-429-11	CARBON 10K	5%	1/4W	
⚠R805	1-219-122-91	FUSIBLE 0.33	5%	1/4W	F
R806	1-249-417-11	CARBON 1K	5%	1/4W	
R808	1-249-417-11	CARBON 1K	5%	1/4W	
⚠R814	1-219-122-91	FUSIBLE 0.33	5%	1/4W	F
R820	1-249-421-11	CARBON 2.2K	5%	1/4W	
R821	1-249-409-11	CARBON 220	5%	1/4W	
R822	1-249-429-11	CARBON 10K	5%	1/4W	
R823	1-249-421-11	CARBON 2.2K	5%	1/4W	
R824	1-249-429-11	CARBON 10K	5%	1/4W	
R825	1-249-441-11	CARBON 100K	5%	1/4W	
R826	1-249-397-11	CARBON 22	5%	1/4W	
R827	1-249-435-11	CARBON 33K	5%	1/4W	
R828	1-249-425-11	CARBON 4.7K	5%	1/4W	
R829	1-249-425-11	CARBON 4.7K	5%	1/4W	
R830	1-249-421-11	CARBON 2.2K	5%	1/4W	
		(CND, E, G, IT, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R830	1-249-409-11	CARBON 220	5%	1/4W (AEP, UK)	
R831	1-249-439-11	CARBON 68K	5%	1/4W	
R832	1-249-389-11	CARBON 4.7	5%	1/4W (AEP, UK, G, IT)	
R833	1-249-389-11	CARBON 4.7	5%	1/4W (AEP, UK, G, IT)	
R834	1-249-393-11	CARBON 10	5%	1/4W	
		(CND, E, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)			
R834	1-249-389-11	CARBON 4.7	5%	1/4W (AEP, UK, G, IT)	
R835	1-249-417-11	CARBON 1K	5%	1/4W	
R836	1-249-397-11	CARBON 22	5%	1/4W	
R838	1-249-429-11	CARBON 10K	5%	1/4W	
R840	1-249-417-11	CARBON 1K	5%	1/4W	
R841	1-249-417-11	CARBON 1K	5%	1/4W	
R881	1-249-437-11	CARBON 47K	5%	1/4W	
R882	1-249-389-11	CARBON 4.7	5%	1/4W (AEP, UK, G, IT)	
R883	1-249-389-11	CARBON 4.7	5%	1/4W (AEP, UK, G, IT)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN | MID SENS | MID SW | OPEN/CLOCE SW | PANEL

Ref.No.	Part No.	Description	Remark
R884	1-249-393-11	CARBON 10 5% 1/4W (CND, E, EA, EE, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
R884	1-249-389-11	CARBON 4.7 5% 1/4W (AEP, UK, G, IT)	
R890	1-249-417-11	CARBON 1K 5% 1/4W	
R891	1-249-417-11	CARBON 1K 5% 1/4W	
R944	1-249-417-11	CARBON 1K 5% 1/4W	
R945	1-249-441-11	CARBON 100K 5% 1/4W	
R999	1-249-433-11	CARBON 22K 5% 1/4W (AEP, UK)	
R999	1-249-429-11	CARBON 10K 5% 1/4W (E2, MX, G, AUS)	
R999	1-249-423-11	CARBON 3.3K 5% 1/4W (E3, SP, MY, HK, PX, CH, EA, AR)	
R999	1-249-418-11	CARBON 1.2K 5% 1/4W (JE)	
R999	1-249-431-11	CARBON 15K 5% 1/4W (IT, EE)	
		< VARIABLE RESISTOR >	
RV41	1-241-765-11	RES, ADJ, CARBON 22K (AM TUNED LEVEL)	
RV42	1-241-630-11	RES, ADJ, CARBON 10K (FM TUNED LEVEL)	
RV401	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL R)	
RV451	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL L)	
		< RELAY >	
RY801	1-515-921-11	RELAY (12V)	
		< TRANSFORMER >	
T1	1-409-505-11	COIL (ANT. SW3) (E3, EA, HK, JE, MY, SP, PX, CH)	
T2	1-402-960-11	COIL (OSC SW3) (E3, EA, HK, JE, MY, SP, PX, CH)	
		< TERMINAL >	
TB101	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)	
		< TERMINAL >	
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA) (CND, E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
TM1	1-537-488-11	TERMINAL BOARD (ANTENNA) (AEP, UK, G, IT, EE)	
		< VIBRATOR >	
X21	1-578-785-11	VIBRATOR, CRYSTAL (4.5MHz)	
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)	
X42	1-527-981-00	FILTER, CERAMIC (450kHz)	
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)	
X301	1-579-125-11	VIBRATOR, CERAMIC (8MHz)	
X302	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	

Ref.No.	Part No.	Description	Remark
*	1-651-393-11	MID SENS BOARD **********	
		< IC >	
IC501	8-729-020-74	IC DIODE GP1S24	
*	1-651-392-11	MID SW BOARD **********	
		< CONNECTOR >	
CN503	1-506-481-11	PIN, CONNECTOR 2P	
		< SWITCH >	
SW504	1-692-193-11	SWITCH, PUSH (1 KEY) (LOAD OUT)	
*	1-651-394-11	OPEN/CLOSE SW BOARD **********	
		< CONNECTOR >	
CN512	1-506-481-11	PIN, CONNECTOR 2P	
* CN514	1-568-941-11	PIN, CONNECTOR 3P	
		< RESISTOR >	
R503	1-249-408-11	CARBON 180 5% 1/4W	
R504	1-249-435-11	CARBON 33K 5% 1/4W	
		< SWITCH >	
SW505	1-571-300-21	SWITCH, ROTARY(OPEN CLOSE)	
*	A-4377-496-A	PANEL BOARD, COMPLETE **********	
	3-362-478-11	HOLDER (T), LED	
	4-970-443-01	HOUSE, LED	
*	4-955-901-01	CUSHION (FL)	
*	4-971-014-01	HOLDER, FL TUBE	
*	4-972-608-01	HOLDER (DIA. 5), LED	
		< CAPACITOR >	
C501	1-126-157-11	ELECT 10uF 20% 16V	
C502	1-162-282-31	CERAMIC 100PF 10% 50V	
C503	1-126-154-11	ELECT 47uF 20% 6.3V	
C504	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C505	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C506	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C507	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C508	1-162-294-31	CERAMIC 0.001uF 10% 50V	

Ref. No.	Part No.	Description			Remark
C509	1-164-159-11	CERAMIC	0.1uF		50V
C510	1-164-159-11	CERAMIC	0.1uF		50V
C511-547					
	1-162-286-31	CERAMIC	220PF	10%	50V
C600	1-162-306-11	CERAMIC	0.01uF	30%	16V
C601	1-162-306-11	CERAMIC	0.01uF	30%	16V
C602	1-164-159-11	CERAMIC	0.1uF		50V
C603	1-124-257-00	ELECT	2.2uF	20%	50V
C604	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C605	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C607	1-124-257-00	ELECT	2.2uF	20%	50V
C608	1-162-294-31	CERAMIC	0.001uF	10%	50V
C609	1-162-294-31	CERAMIC	0.001uF	10%	50V
C610	1-164-159-11	CERAMIC	0.1uF		50V
C611	1-124-257-00	ELECT	2.2uF	20%	50V
C612	1-162-286-31	CERAMIC	220PF	10%	50V
C613	1-162-286-31	CERAMIC	220PF	10%	50V
C614	1-164-159-11	CERAMIC	0.1uF		50V
C615	1-124-257-00	ELECT	2.2uF	20%	50V
		< CONNECTOR >			
CN501	1-568-860-11	SOCKET, CONNECTOR 17P			
* CN503	1-568-934-11	PIN, CONNECTOR 7P			
		< DIODE >			
D505	8-719-301-39	LED	SEL2210S-D (REC)		
D507	8-719-301-59	LED	SEL2910A-TP6 (POPS)		
D508	8-719-301-59	LED	SEL2910A-TP6 (CLASSIC)		
D509	8-719-301-38	LED	SEL2210S-C (DBFB)		
D510	8-719-301-61	LED	SEL2910A-D (CD)		
D511	8-719-301-38	LED	SEL2210S-C (ENTER)		
D519	8-719-301-61	LED	SEL2910A-D (PAUSE)		
D520	8-719-301-59	LED	SEL2910A TP-6 (ROCK)		
D521	8-719-301-59	LED	SEL2910A TP-6 (JAZZ)		
D522	8-719-301-59	LED	SEL2910A TP-6 (DANCE)		
D523	8-719-301-61	LED	SEL2910A-D (TUNER)		
D524	8-719-301-61	LED	SEL2910A-D (TIMER)		
D525	8-719-301-44	LED	SEL2410E-D (TUNER/BAND)		
D529	8-719-014-73	DIODE	UZP-5.6BC-TP		
D530	8-719-987-63	DIODE	1N4148M		
D531	8-719-987-63	DIODE	1N4148M		
D532	8-719-987-63	DIODE	1N4148M		
D533	8-719-987-63	DIODE	1N4148M		
D538	8-719-301-59	LED	SEL2910A TP-6 (ROCK)		
D539	8-719-301-59	LED	SEL2910A TP-6 (POPS)		
D540	8-719-301-59	LED	SEL2910A TP-6 (JAZZ)		
D541	8-719-301-59	LED	SEL2910A TP-6 (CLASSIC)		
D542	8-719-301-59	LED	SEL2910A TP-6 (DANCE)		

Ref. No.	Part No.	Description			Remark
		< FILTER >			
FL501	1-517-341-21	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC501	8-752-862-43	IC	CXP82612-006Q		
IC502	8-749-923-43	IC	GP1U57XB		
IC503	8-759-634-51	IC	M5218AP		
IC504	8-759-634-51	IC	M5218AP		
		< TRANSISTOR >			
Q501	8-729-900-80	TRANSISTOR	DTC114ES		
Q502	8-729-118-01	TRANSISTOR	2SB1116		
Q503	8-729-118-01	TRANSISTOR	2SB1116		
Q504-507					
	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q511-520					
	8-729-119-76	TRANSISTOR	2SA1175-HFE		
		< RESISTOR >			
R501	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-417-11	CARBON	1K	5%	1/4W
R505	1-249-417-11	CARBON	1K	5%	1/4W
R506-510					
	1-249-429-11	CARBON	10K	5%	1/4W
R511	1-249-419-11	CARBON	1.5K	5%	1/4W
R512	1-249-407-11	CARBON	150	5%	1/4W
R513	1-249-410-11	CARBON	270	5%	1/4W
R514	1-249-408-11	CARBON	180	5%	1/4W
R524	1-249-419-11	CARBON	1.5K	5%	1/4W
R525	1-249-407-11	CARBON	150	5%	1/4W
R526	1-249-410-11	CARBON	270	5%	1/4W
R527	1-249-408-11	CARBON	180	5%	1/4W
R537	1-249-419-11	CARBON	1.5K	5%	1/4W
R538	1-249-407-11	CARBON	150	5%	1/4W
R539	1-249-410-11	CARBON	270	5%	1/4W
R540	1-249-408-11	CARBON	180	5%	1/4W
R541	1-249-409-11	CARBON	220	5%	1/4W
R542	1-249-411-11	CARBON	330	5%	1/4W
R543	1-249-413-11	CARBON	470	5%	1/4W
R544	1-249-414-11	CARBON	560	5%	1/4W
R545	1-249-416-11	CARBON	820	5%	1/4W
R546	1-249-418-11	CARBON	1.2K	5%	1/4W
R547	1-249-420-11	CARBON	1.8K	5%	1/4W
R548	1-249-423-11	CARBON	3.3K	5%	1/4W
R549	1-249-427-11	CARBON	6.8K	5%	1/4W
R550	1-249-419-11	CARBON	1.5K	5%	1/4W
R551	1-249-419-11	CARBON	1.5K	5%	1/4W

PANEL TRANSFORMER

Ref. No.	Part No.	Description				Remark
R552	1-247-807-31	CARBON	100	5%	1/4W	
R553	1-249-397-11	CARBON	22	5%	1/4W	
R557	1-249-414-11	CARBON	560	5%	1/4W	
R558	1-249-416-11	CARBON	820	5%	1/4W	
R559	1-249-418-11	CARBON	1.2K	5%	1/4W	
R560	1-249-420-11	CARBON	1.8K	5%	1/4W	
R561	1-249-423-11	CARBON	3.3K	5%	1/4W	
R563	1-247-903-00	CARBON	1M	5%	1/4W	
R564-568						
	1-247-807-31	CARBON	100	5%	1/4W	
R569	1-249-429-11	CARBON	10K	5%	1/4W	
R570	1-249-421-11	CARBON	2.2K	5%	1/4W	
R571	1-249-429-11	CARBON	10K	5%	1/4W	
R572	1-249-421-11	CARBON	2.2K	5%	1/4W	
R577	1-247-807-31	CARBON	100	5%	1/4W	
R578-580						
	1-249-397-11	CARBON	22	5%	1/4W	
R581	1-249-407-11	CARBON	150	5%	1/4W	
R582	1-247-807-31	CARBON	100	5%	1/4W	
R583	1-249-409-11	CARBON	220	5%	1/4W	
R584	1-249-399-11	CARBON	33	5%	1/4W	
R585	1-249-407-11	CARBON	150	5%	1/4W	
R586-588						
	1-249-409-11	CARBON	220	5%	1/4W	
R591	1-249-413-11	CARBON	470	5%	1/4W	
R592	1-247-807-31	CARBON	100	5%	1/4W	
R593	1-249-429-11	CARBON	10K	5%	1/4W	
R596	1-249-429-11	CARBON	10K	5%	1/4W	
R597	1-249-429-11	CARBON	10K	5%	1/4W	
R600	1-249-435-11	CARBON	33K	5%	1/4W	
R601	1-249-441-11	CARBON	100K	5%	1/4W	
R602	1-247-895-00	CARBON	470K	5%	1/4W	
R604	1-249-435-11	CARBON	33K	5%	1/4W	
R605	1-249-441-11	CARBON	100K	5%	1/4W	
R606	1-247-895-00	CARBON	470K	5%	1/4W	
R608	1-249-435-11	CARBON	33K	5%	1/4W	
R609	1-249-441-11	CARBON	100K	5%	1/4W	
R610	1-247-895-00	CARBON	470K	5%	1/4W	
R612	1-249-435-11	CARBON	33K	5%	1/4W	
R613	1-249-441-11	CARBON	100K	5%	1/4W	
R614	1-247-895-00	CARBON	470K	5%	1/4W	
R616-619						
	1-249-437-11	CARBON	47K	5%	1/4W	
R650	1-249-407-11	CARBON	150	5%	1/4W	
R651	1-249-397-11	CARBON	22	5%	1/4W	
R652	1-249-397-11	CARBON	22	5%	1/4W	
R653	1-249-409-11	CARBON	220	5%	1/4W	
R654	1-247-701-11	CARBON	120	5%	1/4W	
R655	1-249-407-11	CARBON	150	5%	1/4W	

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S501	1-467-869-11	ENCODER, ROTARY (VOLUME)	
S502	1-467-968-11	ENCODER, ROTARY (-⏮↔⏭+/MULTI CONTROLLER)	
S504	1-554-303-21	SWITCH, TACTILE (CLOCK)	
S505	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S506	1-554-303-21	SWITCH, TACTILE (FUNCTION)	
S516	1-554-303-21	SWITCH, TACTILE (DBFB)	
S517	1-554-303-21	SWITCH, TACTILE (TUNER MEMORY)	
S518	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)	
S519	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)	
S529	1-554-303-21	SWITCH, TACTILE (ROCK)	
S530	1-554-303-21	SWITCH, TACTILE (POPS)	
S531	1-554-303-21	SWITCH, TACTILE (JAZZ)	
S532	1-554-303-21	SWITCH, TACTILE (CLASSIC)	
S533	1-554-303-21	SWITCH, TACTILE (DANCE)	
S534	1-554-303-21	SWITCH, TACTILE (TIMER SET)	
S535	1-554-303-21	SWITCH, TACTILE (DAYLY)	
S536	1-554-303-21	SWITCH, TACTILE (TIMER REC)	
S537	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
S538	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
S539	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
S540	1-554-303-21	SWITCH, TACTILE (TUNING MODE)	
S541	1-554-303-21	SWITCH, TACTILE (MONO)	
S548	1-554-303-21	SWITCH, TACTILE (DOLBY NR)	
S549	1-554-303-21	SWITCH, TACTILE (DIRECTION MODE)	
S550	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO)	
S551	1-554-303-21	SWITCH, TACTILE (HIGH SPEED DUBBING)	
S552	1-554-303-21	SWITCH, TACTILE (REC ●)	
S553	1-554-303-21	SWITCH, TACTILE (PAUSE)	
S555	1-572-126-11	SWITCH, PUSH (1 KEY) (5CD PANEL)	
S557	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)	
		< VIBRATOR >	
X501	1-567-819-11	VIBRATOR, CERAMIC (4MHz)	
**********			
*	1-654-906-11	TRANSFORMER BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< CONNECTOR >	
CN801	1-564-526-11	PIN, CONNECTOR (PCB) (L TYPE) 11P	
CN851	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P	

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TRANSFORMER POWER

Ref. No.	Part No.	Description	Remark
		< FUSE >	
⚠F801	1-532-259-00	FUSE (T2.5AL, 250V) (E, EA, AR, HK, JE, SP, PX, CH)	
⚠F801	1-532-744-11	FUSE, GLASS CYLINDRICAL(DIA.5) (2.5A, 125V) (CND, MX)	
⚠F802	1-532-078-00	FUSE (T1AL, 250V) (AEP, UK, G, IT, EE)	
⚠F802	1-532-215-00	FUSE (T0.8AL, 250V) (E, EA, AR, AUS, HK, JE, MY, SP, PX, CH)	
		< RESISTOR >	
R800	1-202-725-00	SOLID 3.3M 10% 1/2W (CND)	
		< SWITCH >	
S801	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLUME SELECTOR) (E, EA, AR, HK, JE, SP, PX, CH)	
		< TRANSFORMER >	
⚠T801	1-427-793-11	TRANSFORMER, POWER (E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
⚠T801	1-427-794-11	TRANSFORMER, POWER (AEP, UK, G, IT, EE)	
⚠T801	1-427-858-11	TRANSFORMER, POWER (CND)	
**********			
*	A-4377-474-A	POWER BOARD, COMPLETE (CND)	
*	A-4377-483-A	POWER BOARD, COMPLETE (E, EA, AR, AUS, HK, JE, MX, MY, SP, PX, CH)	
*	A-4377-497-A	POWER BOARD, COMPLETE (AEP, UK, G, IT, EE)	
		**********	
*	4-492-204-01	PLATE, GROUND	
		< CAPACITOR >	
C901	1-124-927-11	ELECT 4.7uF 20% 100V	
C902	1-162-290-31	CERAMIC 470PF 10% 50V	
C903	1-162-286-31	CERAMIC 220PF 10% 50V	
C904	1-126-967-11	ELECT 47uF 20% 50V	
C905	1-126-967-11	ELECT 47uF 20% 50V	
C906	1-124-122-11	ELECT 100uF 20% 50V	
C908	1-128-551-11	ELECT 22uF 20% 50V	
C910	1-136-495-11	FILM 0.068uF 5% 50V	
C911	1-136-495-11	FILM 0.068uF 5% 50V	
C920	1-126-923-11	ELECT 220uF 20% 10V	
C925	1-162-284-31	CERAMIC 150PF 10% 50V	
C951	1-124-927-11	ELECT 4.7uF 20% 100V	
C952	1-162-290-31	CERAMIC 470PF 10% 50V	
C953	1-162-286-31	CERAMIC 220PF 10% 50V	
C954	1-126-967-11	ELECT 47uF 20% 50V	
C955	1-126-967-11	ELECT 47uF 20% 50V	
C956	1-124-122-11	ELECT 100uF 20% 50V	
C960	1-136-495-11	FILM 0.068uF 5% 50V	

Ref. No.	Part No.	Description	Remark
C961	1-136-495-11	FILM 0.068uF 5% 50V	
		< CONNECTOR >	
CN901	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
CN902	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
		< DIODE >	
D901	8-719-987-63	DIODE 1N4148M	
D902	8-719-987-63	DIODE 1N4148M	
D903	8-719-987-63	DIODE 1N4148M	
D951	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC901	8-749-941-52	IC STK-4152II	
		< TRANSISTOR >	
Q901	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q951	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
		< RESISTOR >	
R901	1-249-417-11	CARBON 1K 5% 1/4W	
R902	1-249-437-11	CARBON 47K 5% 1/4W	
R903	1-249-417-11	CARBON 1K 5% 1/4W	
R904	1-249-437-11	CARBON 47K 5% 1/4W	
R905	1-249-425-11	CARBON 4.7K 5% 1/4W	
R906	1-249-425-11	CARBON 4.7K 5% 1/4W	
R907	1-249-425-11	CARBON 4.7K 5% 1/4W	
R908	1-249-425-11	CARBON 4.7K 5% 1/4W	
⚠R909	1-212-881-11	FUSIBLE 100 5% 1/4W F	
⚠R910	1-217-151-00	METAL PLATE 0.22 10% 2W	
R911	1-249-417-11	CARBON 1K 5% 1/4W	
R912	1-249-431-11	CARBON 15K 5% 1/4W	
R913	1-249-441-11	CARBON 100K 5% 1/4W	
R914	1-249-421-11	CARBON 2.2K 5% 1/4W	
R915	1-249-421-11	CARBON 2.2K 5% 1/4W	
R916	1-249-421-11	CARBON 2.2K 5% 1/4W	
R917	1-249-421-11	CARBON 2.2K 5% 1/4W	
R918	1-249-397-11	CARBON 22 5% 1/4W	
R919	1-249-397-11	CARBON 22 5% 1/4W	
R927	1-249-429-11	CARBON 10K 5% 1/4W	
R928	1-249-441-11	CARBON 100K 5% 1/4W	
R930	1-249-429-11	CARBON 10K 5% 1/4W	
R942	1-249-429-11	CARBON 10K 5% 1/4W	
⚠R943	1-217-637-00	FUSIBLE 1 5% 1/4W F	
⚠R944	1-217-637-00	FUSIBLE 1 5% 1/4W F	
R951	1-249-417-11	CARBON 1K 5% 1/4W	
R952	1-249-437-11	CARBON 47K 5% 1/4W	
R953	1-249-417-11	CARBON 1K 5% 1/4W	

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POWER SUB PANEL TC SW TRAY MOTOR U/D MOTOR

Ref. No.	Part No.	Description			Remark
R954	1-249-437-11	CARBON	47K	5%	1/4W
R955	1-249-425-11	CARBON	4.7K	5%	1/4W
R956	1-249-425-11	CARBON	4.7K	5%	1/4W
R957	1-249-425-11	CARBON	4.7K	5%	1/4W
R958	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R959	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R960	1-217-151-00	METAL PLATE	0.22	10%	2W
R961	1-249-417-11	CARBON	1K	5%	1/4W
R962	1-249-431-11	CARBON	15K	5%	1/4W
R963	1-249-441-11	CARBON	100K	5%	1/4W
R968	1-249-397-11	CARBON	22	5%	1/4W
R969	1-249-397-11	CARBON	22	5%	1/4W
**********					
*	1-654-907-11	SUB PANEL BOARD			
		**********			
		< DIODE >			
D504	8-719-046-80	LED SML19416W-TP4 (▷II)			
		< RESISTOR >			
R515	1-249-409-11	CARBON	220	5%	1/4W
R516	1-249-411-11	CARBON	330	5%	1/4W
R517	1-249-413-11	CARBON	470	5%	1/4W
R518	1-249-414-11	CARBON	560	5%	1/4W
R680	1-249-407-11	CARBON	150	5%	1/4W
R681	1-249-407-11	CARBON	150	5%	1/4W
		< SWITCH >			
S507	1-554-303-21	SWITCH, TACTILE (▷II)			
S508	1-554-303-21	SWITCH, TACTILE (■)			
S509	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)			
S510	1-554-303-21	SWITCH, TACTILE (DISC SKIP)			
**********					
*	1-654-904-11	TC SW BOARD			
		**********			
		< CONNECTOR >			
* CN505	1-568-954-11	PIN, CONNECTOR 5P			
		< DIODE >			
D512	8-719-046-36	LED SEL5921A-TH15 (A)			
D513	8-719-046-42	LED SEL5421E-TH8F (▷)			
D526	8-719-046-36	LED SEL5921A-TH15 (B)			
D527	8-719-046-42	LED SEL5421E-TH8F (◁)			
D560	8-719-046-36	LED SEL5921A-TH15 (A)			
D561	8-719-046-36	LED SEL5921A-TH15 (B)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R528	1-249-409-11	CARBON	220	5%	1/4W
R529	1-249-411-11	CARBON	330	5%	1/4W
R530	1-249-413-11	CARBON	470	5%	1/4W
R531	1-249-414-11	CARBON	560	5%	1/4W
R532	1-249-416-11	CARBON	820	5%	1/4W
R533	1-249-418-11	CARBON	1.2K	5%	1/4W
R534	1-249-420-11	CARBON	1.8K	5%	1/4W
		< SWITCH >			
S520	1-554-303-21	SWITCH, TACTILE (DECK A/DECK B)			
S521	1-554-303-21	SWITCH, TACTILE (▷)			
S522	1-554-303-21	SWITCH, TACTILE (◁)			
S523	1-554-303-21	SWITCH, TACTILE (■)			
S524	1-554-303-21	SWITCH, TACTILE (▶▶)			
S525	1-554-303-21	SWITCH, TACTILE (◀◀)			
**********					
*	1-651-391-11	TRAY MOTOR BOARD			
		**********			
		< CAPACITOR >			
C502	1-164-159-11	CERAMIC	0.1uF		50V
**********					
*	1-651-396-11	U/D MOTOR BOARD			
		**********			
		< CAPACITOR >			
C501	1-164-159-11	CERAMIC	0.1uF		50V
**********					
		MISCELLANEOUS			
		**********			
⚠11	1-558-943-41	CORD, POWER (E, JE, MX, PX)			
⚠11	1-575-651-21	CORD, POWER			
⚠11	1-590-926-11	CORD, POWER (CND)			
⚠11	1-696-571-11	CORD, POWER (UK)			
⚠11	1-696-847-11	CORD, POWER (AUS)			
⚠12	1-569-007-11	ADAPTER, CONVERSION 2P (E3, JE, PX)			
⚠13	1-569-008-11	ADAPTER, CONVERSION 2P (EA, MY, SP, CH)			
⚠14	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)			
66	1-696-060-11	WIRE, PARALLEL (FFC) (17 CORE)			
70	1-751-713-11	WIRE (FLAT TYPE) (21 CORE)			
71	1-769-404-11	WIRE (FLAT TYPE) (11 CORE)			
267	1-769-270-11	WIRE (FLAT TYPE) (19 CORE)			
312	1-452-719-11	MAGNET ASSY			
355	8-848-367-11	DEVICE, OPTICAL KSS-213B/K-N			
356	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)			

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Ref.No.	Part No.	Description	Remark
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	
M1	1-698-371-11	MOTOR, DC	
M2	1-541-353-11	MOTOR	
M101	A-4604-363-A	MOTOR (SPINDLE) ASSY	
M102	X-4917-504-1	MOTOR (SLED) ASSY	
M501	A-4660-642-A	MOTOR (U/D) ASSY	
M502	X-4944-463-1	MOTOR (TRAY) ASSY	

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ACCESSORIES & PACKING MATERIALS

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	1-467-977-11	REMOTE COMMANDER (RM-S55) (UK)	
	1-501-594-11	ANTENNA (FM) (UK)	
	1-501-721-11	ANTENNA (LOOP) (UK)	
	3-759-763-11	MANUAL, INSTRUCTION (ENGLISH) (UK)	
*	4-971-822-01	CUSHION (FRONT)	
*	4-971-823-01	CUSHION (REAR)	
*	4-975-000-01	INDIVIDUAL CARTON (UK)	

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HARDWARE LIST

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#1	7-685-646-79	SCREW +BVTP 3×8 (S) TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3×8 (S)	
#3	7-685-647-79	SCREW +BVTP 3×10 (S) TYPE2 N-S	
#4	7-685-650-79	SCREW +BVTP 3×16 (S) TYPE2 IT-3	
#5	7-621-770-67	SCREW +BVTT 2.6×6 (S)	
#9	7-685-533-19	SCREW +BTP 2.6×6 TYPE2 N-S	
#10	7-623-921-01	RING, RETAINING, CAPSTAN	
#11	7-685-645-79	SCREW +BVTP 3×6 TYPE2 N-S	
#12	7-621-775-00	SCREW +B 2.6×3	
#13	7-621-775-10	SCREW +B 2.6×4	
#14	7-685-871-01	SCREW +BVTT 3×6 (S)	
#15	7-685-134-19	SCREW +BTP 2.6×8 TYPE2 N-S	
#16	7-621-773-86	SCREW +B 2.6×4	
#17	7-621-255-15	SCREW +P 2×3	